XT-100DAB

SERVICE MANUAL

AEP Model
UK Model

SPECIFICATIONS

Frequency	174.928 - 239.200 MHz (Band III) 1452.960 - 1490.624 MHz (L band)
Mode	Mode I (Band III) Mode II (L band)
Power requirements	12 V DC car battery (negative earth)
Outputs	BUS control output Audio optical output Audio output
Inputs	Aerial input BUS control input Audio optical input Audio input
Dimensions	240 × 35 × 163 mm (w/h/d)
Mass	Approx. 1.2 kg
Supplied accessories	Parts for installation and connection (1 set) DAB aerial (1) BUS cable (1) RCA pin cord (1) Optical cable (1)

Design and specifications are subject to change without notice.

DIGITAL AUDIO BROADCASTING TUNER

MICROFILM

SONY®

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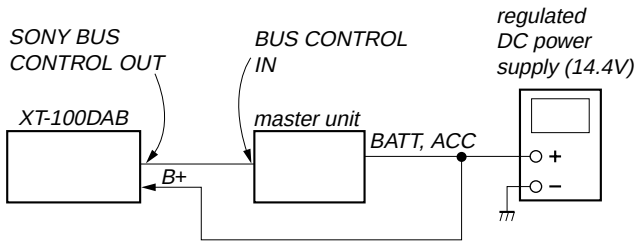
SECTION 1
SERVICE NOTE

The XT-100DAB cannot be operated alone.
When performing voltage check and electrical adjustments, the set should be connected to a master unit such as CDX-C90R or XES-Z50 as shown below.



Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SECTION 2
GENERAL

This section is extracted from instruction manual.

Connections

Cautions

- Before making connections, disconnect the earth terminal of the car battery to avoid short circuits.
- Connect the **yellow** power input cord only after all other cords have been connected.
- **Run all earth leads to a common earth point.**

Analog/Digital output select switch

This switch changes the audio output.
Set the switch position depending on the car audio connection DIGITAL AUDIO IN/OUT or ANALOG AUDIO IN/OUT.
Connect DIGITAL AUDIO IN/OUT to the car audio for digital sound, or ANALOG AUDIO IN/OUT for analog sound.

Note
When you change the position of the switch, be sure to press the reset button on the connected car audio after the connections are completed.

Connecting the optical cable

1 **Remove the protective tubes.**

Do not touch the coupler parts.

Optical cable Ⓑ

2 **Remove the protective cap, and firmly plug in the connector.**

Protective tubes

Protective cap

Notes
- *Observe the following when connecting the cable:*
  - *— Do not bend the cable too much. If the bent part (arc) is less than 10 cm in diameter, sound may not be reproduced.*
  - *— Make sure the cable does not get pinched or constricted in any way by objects around it.*
  - *— Never let the coupler parts of the connectors get scratched or become contaminated with dirt.*
- *When you wish to disconnect the cable, push in on both sides of the connector and pull out.*
- *Be sure to keep the protective cap in a safe place for future use.*

Fuse Replacement

If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction.

Warning

Use a fuse with the specified amperage rating. Use of a higher amperage fuse may cause serious damage.

Conexiones

Precauciones

- Antes de realizar las conexiones, desconecte el terminal de puesta a masa de la batería del automóvil a fin de evitar cortocircuitos.
- Conecte el cable de entrada de alimentación **amarillo** después de haber conectado todos los demás cables.
- **Conecte todos los conductores de puesta a masa a un punto común.**

Interruptor de selección de salida analógico/digital

Este interruptor cambia la salida de audio.
Elija la posición del interruptor dependiendo de la conexión de audio del automóvil: DIGITAL AUDIO IN/OUT o ANALOG AUDIO IN/OUT.
Conecte DIGITAL AUDIO IN/OUT al sistema de audio para automóvil para el sonido digital o ANALOG AUDIO IN/OUT para el sonido analógico.

Nota
Al cambiar la posición del interruptor, asegúrese de pulsar el botón de puesta a cero del sistema de audio conectado después de realizar todas las conexiones.

Conexión del cable óptico

1 **Remove los tubos de protección.**

No toque los componentes acopladores.

Cable óptico Ⓑ

2 **Remove el capuchón de protección, y enchufe el conector firmemente.**

Tubos de protección

Capuchón de protección

Notas
- *Tenga en cuenta lo siguiente al conectar el cable:*
  - *— No doble el cable en exceso. Si la parte doblada (arco) es inferior a 10 cm en diámetro, es posible que el sonido no se reproduzca.*
  - *— Asegúrese de que el cable no queda atrapado ni obstruido de ninguna forma por objetos que se encuentren a su alrededor.*
  - *— No permita que los componentes acopladores de los conectores se arañen o se ensucien.*
- *Cuando desee desconectar el cable, presione a ambos lados del conector y tire de él.*
- *Asegúrese de guardar el capuchón de protección en un lugar seguro para utilizarlo en el futuro.*

Sustitución del fusible

Si se funde el fusible, compruebe la conexión eléctrica y cambie el fusible. Si el fusible se funde de nuevo después de cambiarlo, puede que exista un problema de funcionamiento interno.

Aviso

Utilice fusibles con el amperaje especificado.
El uso de fusibles con un amperaje mayor puede causar daños importantes.

Anslutning

Sökerhetsföreskrifter

- Innan du ansluter bilstereon bör du koppla ur kabeln från bilbatteriets jordpol för att förebygga kortslutningar.
- Anslut inte den **gula** strömkabeln förrän alla andra kablar har anslutits.
- **Dra samtliga jordledningar till en och samma jordningspunkt.**

Omkopplare för analog/digital utgång

Med omkopplaren ändrar du ljudutgång.
Beroende på hur bilstereon är ansluten ställer du omkopplaren på DIGITAL AUDIO IN/OUT eller ANALOG AUDIO IN/OUT.
Anslut DIGITAL AUDIO IN/OUT till bilstereon för digitalt ljud och ANALOG AUDIO IN/OUT för analogt ljud.

Observera
När du slår om omkopplaren bör du trycka på återställningsknappen på den anslutna bilstereon efter att anslutningen har genomförts.

Anslutning av den optiska kabeln

1 **Ta bort skyddshylsorna.**

Ta inte på de delar som utgör själva anslutningen.

Optisk kabel Ⓑ

2 **Ta bort skyddsplattan, och tryck fast anslutningen ordentligt.**

Skyddshylsor

Skyddsplatta

Notes
- *Observera följande då kabeln ansluts:*
  - *— Böj inte kabeln allt för mycket. Om den böjda delen (bågen) är mindre än 10 cm i diameter, så kan det hända att ljudet inte reproduceras.*
  - *— Se till att kabeln inte på något sätt blir klämd eller hoptryckt av föremål runt omkring den.*
  - *— Se till att inte de delar som utgör själva anslutningen blir repade eller utsatta för smuts.*
- *När du vill koppla bort kabeln, trycker du på kontaktens sidor och drar ut den.*
- *Se till att förvara skyddsplattan på ett säkert ställe för framtida bruk.*

Byta säkring

Om säkringen går ska du kontrollera anslutningen och byta säkring. Om säkringen går igen när den är bytt, kan det bero på internt fel.

Varning

Använd en säkring med rätt strömstyrka.
Om du använder en säkring för högre strömstyrka kan allvarliga skador uppstå.

Ligações

Advertência

- Antes de efectuar as ligações, desligue o terminal terra da bateria do automóvel para evitar curto-circuitos.
- Só pode ligar o cabo de alimentação **amarelo** depois de ter ligado todos os cabos.
- **Ligue todos os fios de terra num ponto de massa comum.**

Selector de saída analógica/digital

Este interruptor selecciona a saída de áudio.
Regule a posição do selector para DIGITAL AUDIO IN/OUT ou ANALOG AUDIO IN/OUT, de acordo com o tipo de ligação utilizada pelo rádio do automóvel.
Coloque o selector na posição DIGITAL AUDIO IN/OUT para som digital ou na posição ANALOG AUDIO IN/OUT para som analógico.

Nota
Se mudar a posição do selector, carregue no botão de reinicialização do aparelho, depois de ter efectuado todas as ligações.

Ligar o cabo óptico

1 **Retire os tubos de protecção.**

Não toque nas peças do acoplador.

Cabo óptico Ⓑ

2 **Retire a tampa protectora e ligue bem o conector.**

Tubos de protecção

Tampa protectora

Notas
- *Quando ligar o cabo respeite as instruções indicadas abaixo:*
  - *— Não dobre demais o cabo. Se a parte dobrada (arco) tiver menos de 10 cm de diâmetro, pode não conseguir reproduzir o som.*
  - *— Verifique se o cabo não fica entalado ou preso nos objectos que o rodeiam.*
  - *— Não deixe as peças de acoplador dos conectores riscarem-se ou ficarem sujas.*
- *Quando quiser desligar o cabo, empurre para dentro ambos os lados do conector e depois puxe-o para fora.*
- *Guarde a tampa protectora num local seguro para utilização futura.*

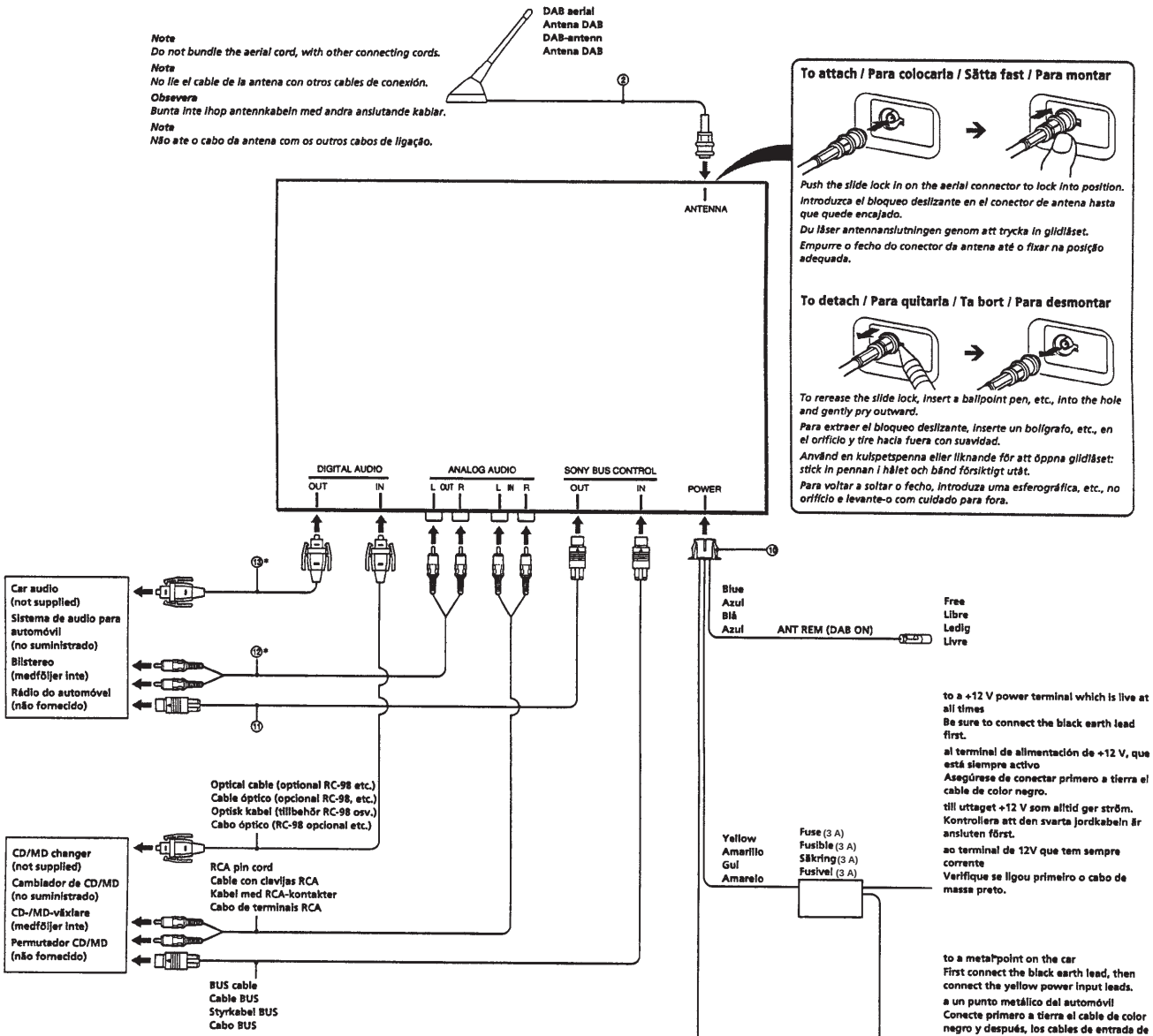
Substituição do fusível

Se o fusível rebentar, verifique as ligações e substitua o fusível. Se, depois de o ter substituído, o fusível voltar a rebentar, pode existir uma avaria interna.

Aviso

Utilize um fusível com a amperagem especificada.
A utilização de um fusível com uma amperagem mais elevada pode provocar danos graves.

Connection example
Ejemplo de conexiones
Anslutningarna enligt exemplet
Exemplo de ligações


DAB aerial
Antena DAB
DAB-antenn
Antena DAB
Note
Do not bundle the aerial cord, with other connecting cords.
Nota
No lie el cable de la antena con otros cables de conexión.
Observera
Bunta inte ihop antennkabeln med andra anslutande kablar.
Nota
Não ate o cabo da antena com os outros cabos de ligação.
ANTENNA
To attach / Para colocarla / Sätta fast / Para montar
Push the slide lock in on the aerial connector to lock into position.
Introduzca el bloqueo deslizante en el conector de antena hasta que quede encajado.
Du låser antennanslutningen genom att trycka in glidläset.
Empurre o fecho do conector da antena até o fixar na posição adequada.
To detach / Para quitarla / Ta bort / Para desmontar
To rerease the slide lock, insert a ballpoint pen, etc., into the hole and gently pry outward.
Para extraer el bloqueo deslizante, inserte un bolígrafo, etc., en el orificio y tire hacia fuera con suavidad.
Använd en kulspetspenna eller liknande för att öppna glidläset: stick in pennan i hålet och bänd försiktigt utåt.
Para voltar a soltar o fecho, introduza uma esferográfica, etc., no orifício e levante-o com cuidado para fora.
DIGITAL AUDIO
OUT
IN
ANALOG AUDIO
L OUT R
L IN R
SONY BUS CONTROL
OUT
IN
POWER
Car audio
(not supplied)
Sistema de audio para automóvil
(no suministrado)
Bilstereo
(medföljer inte)
Rádio do automóvel
(não fornecido)
Optical cable (optional RC-98 etc.)
Cable óptico (opcional RC-98, etc.)
Optisk kabel (tillbehör RC-98 osv.)
Cabo óptico (RC-98 opcional etc.)
CD/MD changer
(not supplied)
Cambiador de CD/MD
(no suministrado)
CD-/MD-växlare
(medföljer inte)
Permutador CD/MD
(não fornecido)
RCA pin cord
Cable con clavijas RCA
Kabel med RCA-kontakter
Cabo de terminais RCA
BUS cable
Cable BUS
Styrkabel BUS
Cabo BUS
Blue
Azul
Blå
Azul
ANT REM (DAB ON)
Free
Libre
Ledig
Livre
to a +12 V power terminal which is live at all times
Be sure to connect the black earth lead first.
al terminal de alimentación de +12 V, que está siempre activo
Asegúrese de conectar primero a tierra el cable de color negro.
till uttaget +12 V som alltid ger ström.
Kontrollera att den svarta jordkabeln är ansluten först.
ao terminal de 12V que tem sempre corrente
Verifique se ligou primeiro o cabo de massa preto.
Yellow
Amarillo
Gul
Amarelo
Fuse (3 A)
Fusible (3 A)
Säkring (3 A)
Fusível (3 A)
to a metal point on the car
First connect the black earth lead, then connect the yellow power input leads.
a un punto metálico del automóvil
Conecte primero a tierra el cable de color negro y después, los cables de entrada de alimentación amarillos.
till en metalldel på bilen.
Anslut först den svarta jordkabeln och därefter de gula strömkablarna.
a um ponto metálico do automóvel
Em primeiro lugar, ligue o cabo de massa preto, em seguida, ligue os cabos de alimentação amarelos.
Black
Negro
Svart
Preto

* *When you connect the car audio (XES-Z50 or CDX-C90R), choose the cable, cord, and audio select switch position according to the charts below.*
* *Cuando conecte el sistema de audio para automóvil (XES-Z50 o CDX-C90R), elija los cables y la posición del interruptor de selección de audio de acuerdo con los siguientes diagramas.*
* *När du ansluter bilens ljudsystem (XES-Z50 eller CDX-C90R), väljer du kabel och inställning på ljudomkopplaren enligt nedanstående schema.*
* *Quando ligar o equipamento de som do automóvel (XES-Z50 ou CDX-C90R), escolha o cabo, o fio e a posição de selecção de audio de acordo com a tabela abaixo.*

XES-Z50

CD/MD changer output system Sistema de salida de cambiador de CD/MD Utgång för CD-/MD-växlare Sistema de saída do permutador de CD/MD	XT-100DAB ⟷ XES-Z50	XT-100DAB ⟷ CD/MD changer Cambiador de CD/MD CD-/MD-växlare Permutador de CD/MD	Audio select switch Interruptor de selección de audio Ljudomkopplare Interruptor de selecção de audio
Digital audio output Salida de audio digital Digital ljudutgång Saída digital de audio	Optical cable ⑬ Cable óptico ⑬ Optisk kabel ⑬ Cabo óptico ⑬	Optical cable RC-98 etc. (not supplied) Cable óptico RC-98, etc. (no suministrado) Optiskt kabel RC-98 osv. (medföljer inte) Cabo óptico RC-98 etc. (não fornecido)	DIGITAL
Analog audio output Salida de audio analógica Analog ljudutgång Saída analógica de audio	Optical cable ⑬ and RCA pin cord ⑫ Cable óptico ⑬ y Cable con clavijas RCA ⑫ Optisk kabel ⑬ och Kabel med RCA-kontakter ⑫ Cabo óptico ⑬ e Cabo de terminais RCA ⑫	RCA pin cord (not supplied) Cable con clavijas RCA (no suministrado) Kabel med RCA-kontakter (medföljer inte) Cabo de terminais RCA (não fornecido)	DIGITAL
	RCA pin cord ⑫ Cable con clavijas RCA ⑫ Kabel med RCA-kontakter ⑫ Cabo de terminais RCA ⑫	RCA pin cord (not supplied) Cable con clavijas RCA (no suministrado) Kabel med RCA-kontakter (medföljer inte) Cabo de terminais RCA (não fornecido)	ANALOG

CDX-C90R

CD/MD changer output system Sistema de salida de cambiador de CD/MD Utgång för CD-/MD-växlare Sistema de saída do permutador de CD/MD	XT-100DAB ⟷ XES-Z50	XT-100DAB ⟷ CD/MD changer Cambiador de CD/MD CD-/MD-växlare Permutador de CD/MD	Audio select switch Interruptor de selección de audio Ljudomkopplare Interruptor de selecção de audio
Analog audio output Salida de audio analógica Analog ljudutgång Saída analógica de audio	RCA pin cord ⑫ Cable con clavijas RCA ⑫ Kabel med RCA-kontakter ⑫ Cabo de terminais RCA ⑫	RCA pin cord (not supplied) Cable con clavijas RCA (no suministrado) Kabel med RCA-kontakter (medföljer inte) Cabo de terminais RCA (não fornecido)	ANALOG

Note
Set the switch position according to the car audio: DIGITAL AUDIO IN/OUT or ANALOG AUDIO IN/OUT. See the instruction manual of the connected equipment for details.

Nota
Seleccione la posición del interruptor (DIGITAL AUDIO IN/OUT o ANALOG AUDIO IN/OUT) dependiendo de la conexión de audio del automóvil:
Para obtener información más detallada, consulte el manual de instrucciones del equipo conectado.

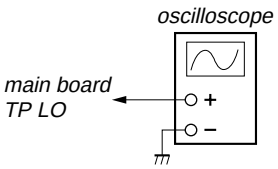
Observera
Ställ in omkopplaren efter bilstereons anslutning: DIGITAL AUDIO IN/OUT eller ANALOG AUDIO IN/OUT.
Mer information finns i handboken till den anslutna utrustningen.

Nota
Regule a posição do selector de acordo com o tipo de ligação utilizada no rádio do automóvel:DIGITAL AUDIO IN/OUT ou ANALOG AUDIO IN/OUT.
Para obter mais informações, consulte o manual de instruções do equipamento ligado.

SECTION 3
ELECTRICAL ADJUSTMENTS

The set should be connected to a master unit for electrical adjustments (See page 2).

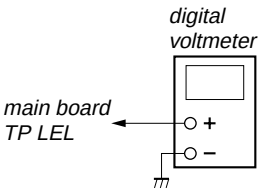
Local OSC Adjustment
Setting:



Procedure:
1. Adjust T102 so as to maximize the peak of waveform at 35.84 MHz.

Adjustment Location: See page 6.

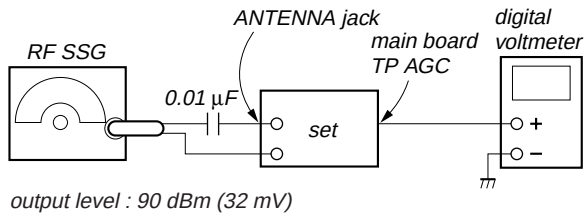
IF2 Output Gain Adjustment
Setting:



Procedure:
1. Adjust RV101 so that the reading on digital voltmeter is 2.25 V.

Adjustment Location: See page 6.

AGC Adjustment
Setting:
ANT +B switch : OFF

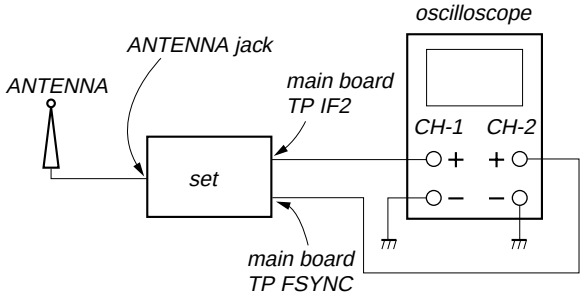


output level : 90 dBm (32 mV)
Non-modulation

Procedure:
1. Set the carrier frequency of RF SSG to 225.648 MHz.
2. Receive the channel 12B (225.648 MHz).
3. Adjust RV102 so that the reading on digital voltmeter is 3.1 ± 0.5 V.
4. Set the carrier frequency of RF SSG to 1471.792 MHz.
5. Receive the channel L12 (1471.792 MHz).
6. Adjust RV103 so that the reading on digital voltmeter is 3.2 ± 0.5 V.

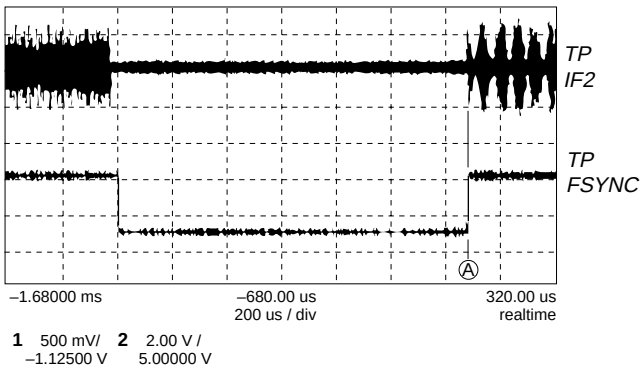
Adjustment Location: See page 6.

Frame Sync Adjustment
Setting:
ANT +B switch : ON

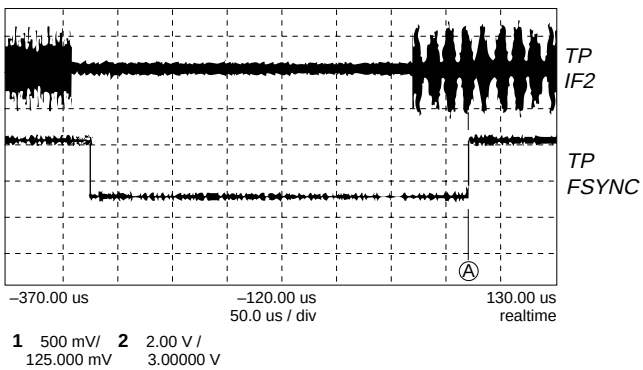


Procedure:
1. Receive the DAB signal.
2. Adjust RV104 so that the rising edge of waveform of TP FSYNC is positioned Ⓐ.

(1) In case of Band Ⅲ (from channel 5A to 13F)

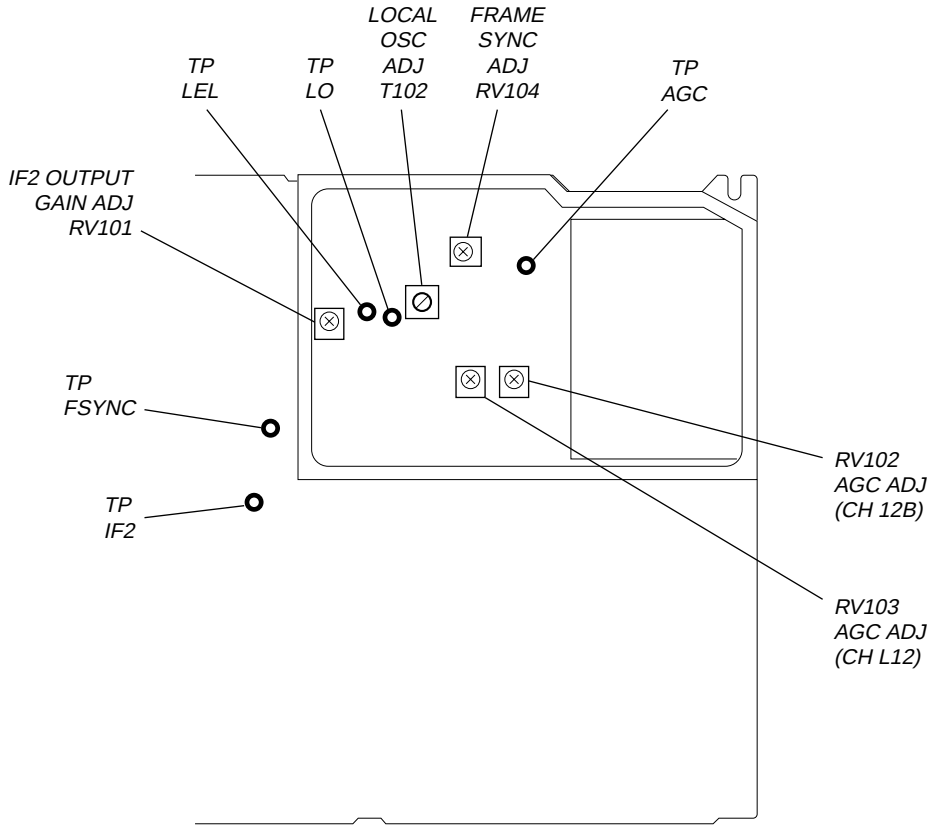


(2) In case of L Band (from channel L1 to L23)



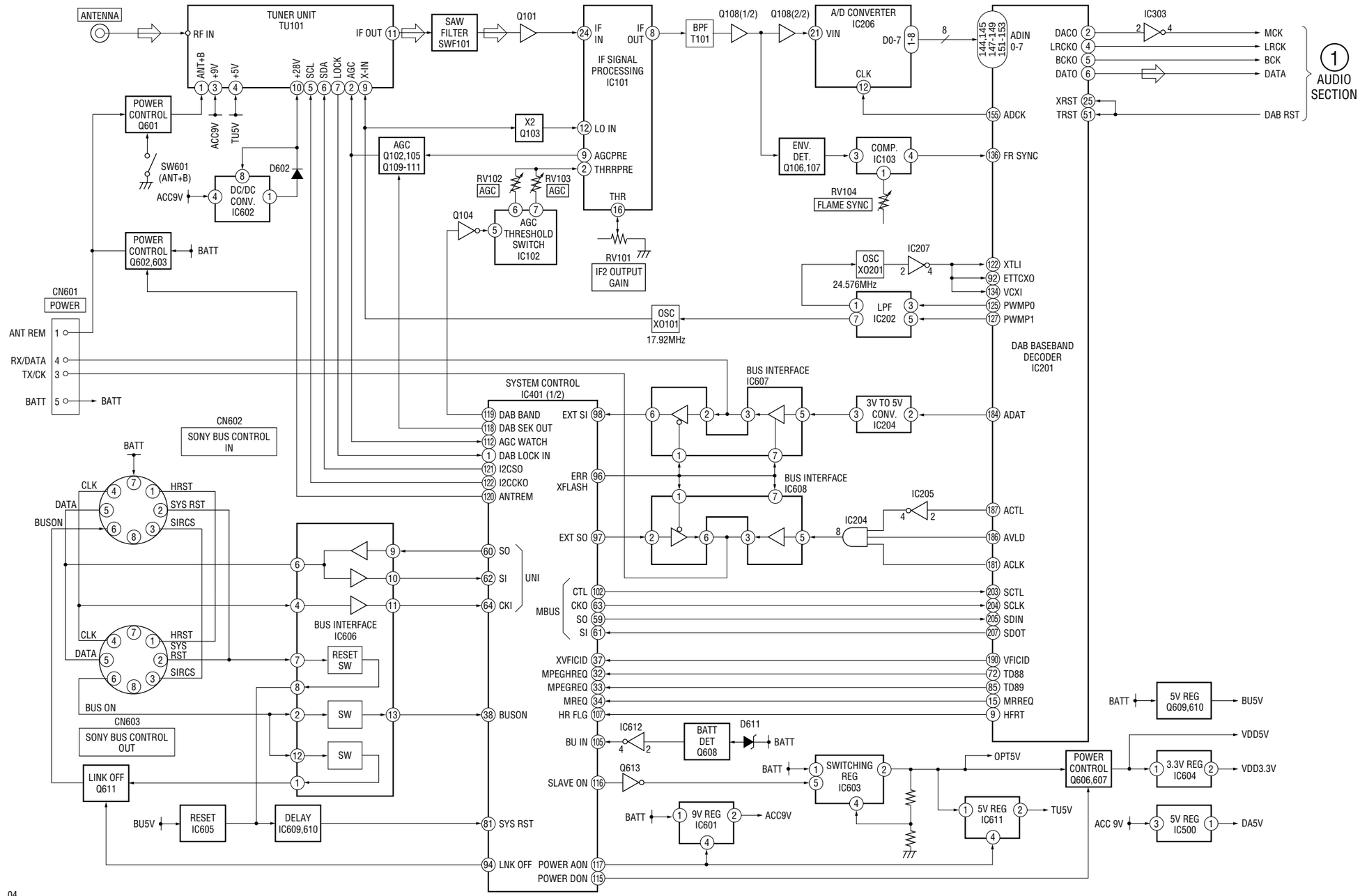
Adjustment Location: See page 6.

Adjustment Location: main board (side A)



SECTION 4
DIAGRAMS

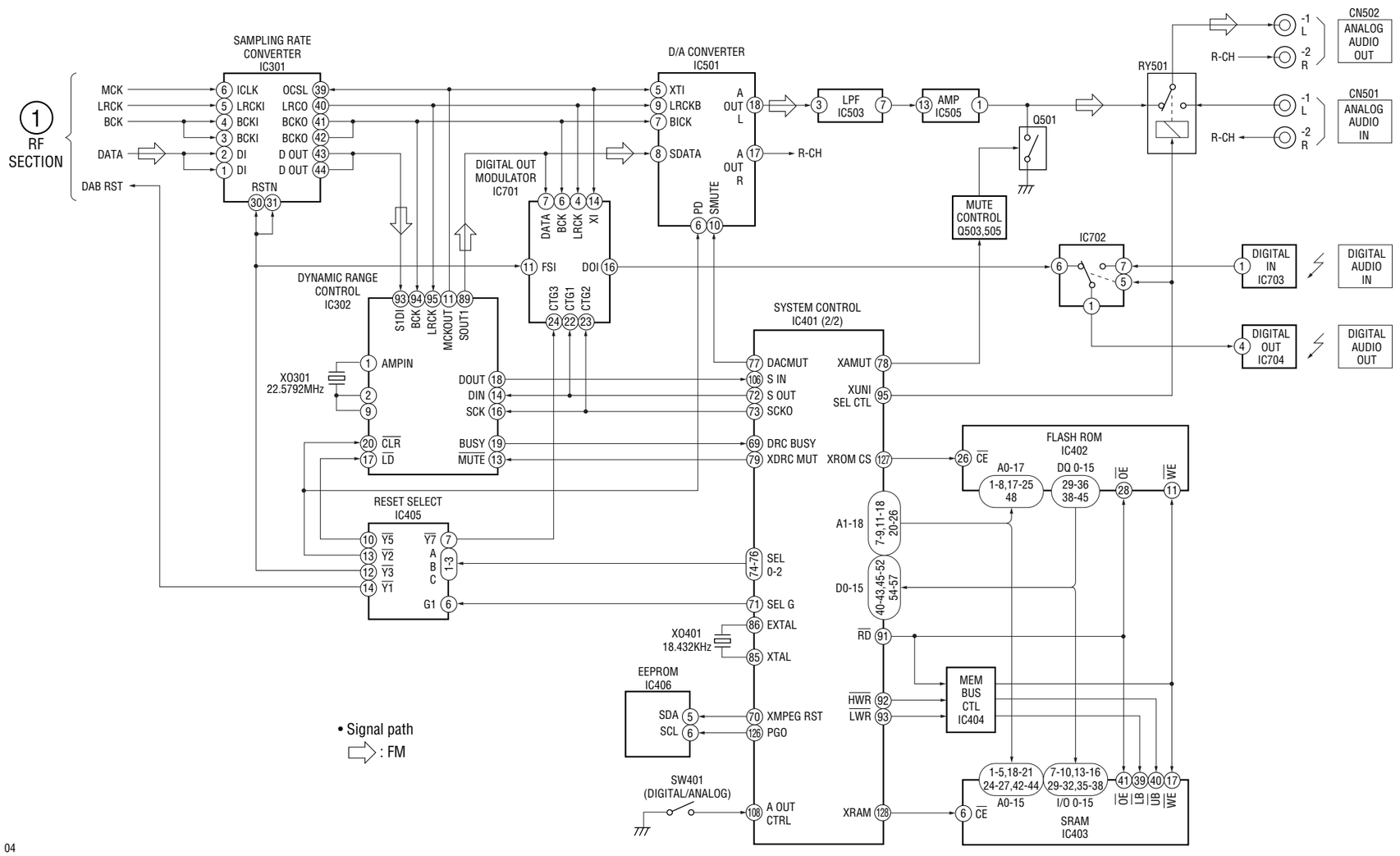
4-1. BLOCK DIAGRAM — RF SECTION —



04

• Signal path
⇨ : FM

4-2. BLOCK DIAGRAM — AUDIO SECTION —



04

4-3. IC PIN DESCRIPTIONS

• IC201 CXD1990Q (DAB BASE BAND DECODER)

Pin No.	Pin Name	I/O	Pin Description
1	VSS	—	Ground
2	DACO	O	Clock (256fs/512fs) signal output for audio D/A converter.
3	TD75	I	Test pin (Built-in pull up resistor.) (Open)
4	LRCKO	O	L/R clock signal output to audio D/A converter.
5	BCKO	O	Bit clock signal output to audio D/A converter.
6	DATO	O	Serial data signal output to audio D/A converter.
7	TD76	I	Test pin (Built-in pull up resistor.) (Open)
8	DOUT	O	Digital out signal output of audio signal. (Open)
9	HFRT	O	Half rate display signal output (“H” : Stream playback of half rate)
10	RDIMOUT	O	Biphase modulation signal output of RDI signal. (Open)
11	VDD	—	Power supply pin (+3.3 V)
12	RDISOUT	O	Serial data signal output of RDI signal. (Open)
13	VSS	—	Ground
14	LRCKR	O	Clock signal output of RDI signal. (Open)
15	MRREQ	O	Request to read signal output to µ-con.
16	TD77	I	Test pin (Built-in pull up resistor.) (Open)
17 – 19	CADR0 – 2	I	Chip select address signal input (Connect to ground.)
20	TD78	I	Test pin (Built-in pull up resistor.) (Open)
21 – 23	CADR3 – 5	I	Chip select address signal input (Connect to ground.)
24	VDD	—	Power supply pin (+3.3 V)
25	XRST	I	Reset signal input (When “L” signal input, internal LSI is initialized.)
26	VDD	—	Power supply pin (+3.3 V)
27	VSS	—	Ground
28	SCL	I	Test pin (Normally open. Built-in pull up resistor.) (Connect to ground.)
29	VSS	—	Ground
30 – 32	TD25, 19, 20	I	Test pin (Built-in pull up resistor.) (Open)
33 – 35	TD79, 18, 21	I	Test pin (Built-in pull up resistor.) (Open)
36 – 38	TD17, 80, 22	I	Test pin (Built-in pull up resistor.) (Open)
39	AVS	—	Ground
40, 41	TD16, 23	I	Test pin (Built-in pull up resistor.) (Open)
42, 43	TD81, 24	I	Test pin (Built-in pull up resistor.) (Open)
44	AVD	—	Power supply pin (+3.3 V)
45	TCK	I	Test pin (Connect to ground.)
46	TD82	I	Test pin (Built-in pull up resistor.) (Open)
47	TMS	—	Test pin (Normally open.)
48	TDI	—	Test pin (Normally open.)
49	TDO	—	Test pin (Open)
50	TD83	I	Test pin (Built-in pull up resistor.) (Open)
51	TRST	I	Reset signal input of LSI test circuit. (Connect to XRST (pin 25).)
52, 53	TD46, 47	I	Test pin (Built-in pull up resistor.) (Connect to ground.)
54 – 56	TD34, 84, 35	I	Test pin (Built-in pull up resistor.) (Open)
57 – 59	TD33, 7, 85	I	Test pin (Built-in pull up resistor.) (Open)
60 – 62	TD8, 6, 9	I	Test pin (Built-in pull up resistor.) (Open)
63, 64	TD86, 5	I	Test pin (Built-in pull up resistor.) (Open)
65	TDOSEL	I	Test pin (Normally open. Built-in pull up resistor.) (Connect to ground.)
66 – 68	TD10, 4, 87	I	Test pin (Built-in pull up resistor.) (Open)
69 – 71	TD11, 3, 12	I	Test pin (Built-in pull up resistor.) (Open)
72	TD88	O	Request to header read of audio stream. (Built-in pull up resistor.)
73, 74	TD2, 13	I	Test pin (Built-in pull up resistor.) (Open)
75	AXXOUT	I	Test pin (H : Channel decoder monitor output. Built-in pull up resistor.)
76	VDD	—	Power supply pin (+3.3 V)

Pin No.	Pin Name	I/O	Pin Description
77	DBI	I	Test pin (Normally open. Built-in pull up resistor.) (Connect to ground.)
78	VDD	—	Power supply pin (+3.3 V)
79	VSS	—	Ground
80	TD1	I	Test pin (Built-in pull up resistor.) (Open)
81	VSS	—	Ground
82 – 84	TD14, 0, 15	I	Test pin (Built-in pull up resistor.) (Open)
85	TD89	O	Request to PAD read of audio stream. (Built-in pull up resistor.)
86, 87	TD26, 27	I	Test terminal (Built-in pull up resistor.) (Open)
88	XROMW0	I	Set up wait cycle of synchronous processor. (Connect to ground.)
89	TD48	I	Test pin (Built-in pull up resistor.) (Connect to VDD.)
90	XROMW1	I	Set up wait cycle of synchronous processor. (Connect to ground.)
91	VSS	—	Ground
92	EITCXO	I	Clock input pin for test of synchronous processor.
93	ESXICS	I	Test pin of synchronous processer. (Connect to VDD.)
94	VDD	—	Power supply pin (+3.3 V)
95	NMI	I	External interruption input of synchronous processor. (Connect to ground.)
96	PMI	I	External interruption input of synchronous processor. (Connect to ground.)
97	DREADY	I	Data ready input of synchronous processor. (Connect to VDD.)
98	TD49	I	Test pin (Built-in pull up resistor.) (Open)
99	RXDC	I	Test input pin of synchronous processor. (Fixed at “H”.)
100	TXDC	O	Test output pin of synchronous processor. (Open)
101	HOLD	I	Request to hold input of synchronous processor. (Connect to ground.)
102	TD50	I	Test pin (Built-in pull up resistor.) (Open)
103	HOLDA	O	Hold response output of synchronous processor. (Open)
104	VDD	—	Power supply terminal (+3.3 V)
105	VSS	—	Ground
106	STSTXCK	I	Test pin (Normally open. Built-in pull up resistor.) (Connect to ground.)
107	TD53	I	Test pin (Built-in pull up resistor.) (Open)
108	STESTF	I	Test pin (Normally open. Built-in pull up resistor.) (Connect to ground.)
109	STESTS	I	Test pin (Normally open. Built-in pull up resistor.) (Connect to ground.)
110	TD28	I	Test pin (Built-in pull up resistor.) (Open)
111	TD54	I	Test pin (Built-in pull up resistor.) (Connect to VDD.)
112 – 114	TD29 – 31	I	Test pin (Built-in pull up resistor.) (Open)
115, 116	TD55, 32	I	Test pin (Built-in pull up resistor.) (Open)
117	VSS	—	Ground
118 – 121	TD36, 37, 56, 38	I	Test pin (Built-in pull up resistor.) (Open)
122	XTLI	I	24.576 MHz clock input for VCXO control or oscillator input connection pin.
123	XTLO	O	24.576 MHz oscillator output pin (Open)
124	TD57	I	Test pin (Built-in pull up resistor.) (Open)
125	PWMP0	O	Pulse output (forward phase output) of time axis synchronous VCXO control.
126	PWMN0	O	Pulse output (reversed phase output of PWMP0) of time axis synchronous VCXO control. (Open)
127	PWMP1	O	Pulse output (forward phase output) of frequency axis synchronous VCXO control.
128	TD51	I	Test pin (Built-in pull up resistor.) (Connect to VDD.)
129	PWMN1	O	Pulse output (reversed phase output of PWMP1) of frequency axis synchronous VCXO control. (Open)
130	VDD	—	Power supply pin (+3.3 V)
131	NSHS	I	Mode select of VCXO control circuit (Connect to ground.)
132	VCXMO	O	Monitor output pin of master clock. (Open)
133	TD58	I	Test pin (Built-in pull up resistor.) (Open)
134	VCXI	I	Master clock (24.576 MHz) input of LSI.
135	VCXSEL	I	Set up operation clock of LSI. (Connect to ground.)
136	FRSYNC	I	Frame sync signal input

Pin No.	Pin Name	I/O	Pin Description
137	TD59	I	Test pin (Built-in pull up resistor.) (Open)
138	WAGC	O	AGC window signal output (Open)
139	DIQS	I	Test pin (Connect to ground.)
140	SHIFT	I	Test pin (Connect to VDD.)
141	TD60	I	Test pin (Built-in pull up resistor.) (Open)
142	MSBINV	I	MSB inversion of I/F digital signal (“H” : Processing to invert at internal LSI with ADIN7.)
143	VSS	—	Ground
144	ADIN0	I	Input pin of I/F digital signal (A/D converter output)
145	ADIN1	I	Input pin of I/F digital signal (A/D converter output)
146	TD61	I	Test pin (Built-in pull up resistor.) (Open)
147 – 149	ADIN2 – 4	I	Input pin of I/F digital signal (A/D converter output)
150	TD62	I	Test pin (Built-in pull up resistor.) (Open)
151 – 153	ADIN5 – 7	I	Input pin of I/F digital signal (A/D converter output)
154	TD63	I	Test pin (Built-in pull up resistor.) (Open)
155	ADCK	O	4.096 MHz clock output for A/D converter.
156	VDD	—	Power supply pin (+3.3 V)
157	VSS	—	Ground
158	TEST0	I	Test pin (Connect to VDD.)
159	TD52	I	Test pin (Built-in pull up resistor.) (Connect to VDD.)
160 – 162	TEST1 – 3	I	Test pin (Connect to VDD.)
163	TD64	I	Test pin (Built-in pull up resistor.) (Open)
164	EXTI	I	Test pin (Normally open. Built-in pull down resistor.) (Connect to ground.)
165	TBDIR	I	Test pin (Normally open. Built-in pull down resistor.) (Connect to ground.)
166	HDI	I	Test pin (Connect to ground.)
167	TD65	I	Test pin (Built-in pull up resistor.) (Open)
168	HCK	I	Test pin (Connect to ground.)
169	VSS	—	Ground
170	XLD	I	Test pin (Connect to VDD.)
171	RAMXROM	I	Test pin (Connect to ground.)
172	TD66	I	Test pin (Built-in pull up resistor.) (Open)
173	HDO	O	Test output pin (Open)
174	BUSY	O	Test output pin (Open)
175	XFFTSYME	O	Test output pin (Open)
176	TD67	I	Test pin (Built-in pull up resistor.) (Open)
177	XFFTFS	O	Test output pin (Open)
178	XSYM	O	Test output pin (Open)
179	AXXSEL	I	Test pin (Normally open. Built-in pull down resistor.) (Connect to ground.)
180	TD68	I	Test pin (Built-in pull up resistor.) (Open)
181	ACLK	O	3.072 MHz clock output.
182	VDD	—	Power supply pin (+3.3 V)
183	VSS	—	Ground
184	ADAT	I/O	Channel decoder monitor output (At AXXOUT=“H” set up, output.)
185	TD69	I	Test pin (Built-in pull up resistor.) (Open)
186	AVLD	I/O	Channel decoder monitor output (At AXXOUT=“H” set up, output.)
187	ACTL	I/O	Channel decoder monitor output (At AXXOUT=“H” set up, output.)
188	CIFS	I/O	Channel decoder monitor output (At AXXOUT=“H” set up, output.) (Open)
189	TD70	I	Test pin (Built-in pull up resistor.) (Open)
190	VFICID	O	FIC valid output
191	CRCERR	O	CRC result of FIC (H : CRC error) (Open)
192 – 194	TD39, 71, 40	I	Test pin (Built-in pull up resistor.) (Open)
195	VSS	—	Ground
196	TD41	I	Test pin (Connect to ground.)
197 – 199	TD42, 72, 43	I	Test pin (Built-in pull up resistor.) (Open)

Pin No.	Pin Name	I/O	Pin Description
200, 201	TD44, 45	I	Test pin (Built-in pull up resistor.) (Connect to ground.)
202	TD73	I	Test pin (Built-in pull up resistor.) (Open)
203	SCTL	I	Control input from system control (IC401).
204	SCLK	I	Serial data transfer clock input from system control (IC401).
205	SDIN	I	Serial data input from system control (IC401).
206	TD74	I	Test pin (Built-in pull up resistor.) (Open)
207	SDOT	O	Serial data output to system control (IC401).
208	VDD	—	Power supply pin (+3.3 V)

• IC302 CXD2710R (DYNAMIC RANGE CONTROL)

Pin No.	Pin Name	I/O	Pin Description
1	AMPIN	I	Loop filter amplifier input for PLL.
2	AMPOUT	O	Loop filter amplifier output for PLL.
3	VDD	—	Power supply pin (+5 V)
4	VSS	—	Ground
5	AVSS1	—	Ground for PLL.
6	VCOC	I	VCO control signal input
7	AVDD1	—	VCO power supply pin for PLL. (+5 V)
8	VCOOUT	O	VCO output for PLL. (OPEN)
9	MCK1	I	Master clock input (768Fs)
10	MCK2	I	Master clock input (384Fs) (Fixed at "H")
11	MCKOUT	O	Master clock output (384Fs)
12	MCKSEL	I	MCK1/internal VCO select pin ("H" : MCK1, "L" : internal VCO) (Fixed at "H".)
13	$\overline{\text{MUTE}}$	I	Mute signal input of serial interface from system control (IC401). (L : Mute on)
14	DIN	I	Program data seriai input from system control (IC401).
15	VSS	—	Ground
16	SCK	I	Program data shift clock input from system control (IC401).
17	$\overline{\text{LD}}$	I	Program data load input from system control (IC401).
18	DOUT	O	Intenal data serial output to system control (IC401).
19	BUSY	O	Data transfer busy signal output to system control (IC401).
20	$\overline{\text{CLR}}$	I	Reset signal input from system control (IC401).
21 – 27	TEST	I	Test pin (Connect to ground.)
28	VDD	—	Power supply pin (+5 V)
29	VSS	—	Ground
30 – 38	TEST	I	Test pin (Connect to ground.)
39	TEST	—	Test pin (Open)
40	VSS	—	Ground
41 – 52	TEST	—	Test pin (Open)
53	VDD	—	Power supply pin (+5 V)
54	VSS	—	Ground
55 – 64	TEST	—	Test pin (Open)
65	VSS	—	Ground
66 – 74	TEST	—	Test pin (Open)
75	EBDIR	I	Test pin (Connect to ground.)
76	UBDIR	I	Test pin (Connect to ground.)
77	TEST	I	Test pin (Connect to ground.)
78	VDD	—	Power supply pin (+5 V)
79	VSS	—	Ground
80 – 82	TEST	I	Test pin (Connect to ground.)
83	AVDD2	—	Power supply pin for DRAM. (+5 V)
84	AVSS2	—	Ground for D-RAM.
85	AVDD3	—	Power supply pin for DRAM. (+5 V)
86	AVSS3	—	Ground for DRAM.
87	SOUT3	O	Serial data (1 sampling, 2 channel) output (Open)
88	SOUT2	O	Serial data (1 sampling, 2 channel) output (Open)
89	SOUT1	O	Serial data (1 sampling, 2 channel) output
90	VSS	—	Ground
91	S3DI	I	Serial data (1 sampling, 2 channel) output (Connect to ground.)
92	S2DI	I	Serial data (1 sampling, 2 channel) output (Connect to ground.)
93	S1DI	I	Serial data (1 sampling, 2 channel) input
94	BCK	I	Bit clock input of the serial I/O data.
95	LRCK	I	Sampling clock input of the serial I/O data.
96	PCPOUT	O	Error output of PLL phase comparator. (Open)

Pin No.	Pin Name	I/O	Pin Description
97	V	O	Frequency divider output for PLL. (Open)
98	VAR	I	PLL phase comparator variable input (Connect to ground.)
99	REF	I	PLL phase comparator reference input (Connect to ground.)
100	PD	O	PLL phase comparator charge pump output (Open)

• IC401 HD6432655H01FN (SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Pin Description
1	DAB LOCKIN	I	Lock input for PLL.
2	PG4	—	Connect to ground.
3	VSS	—	Ground
4	NIL	—	Ground
5	VCC	—	Power supply pin (+5 V)
6 – 9	A0 – 3	O	Address data signal output
10	VSS	—	Ground
11 – 18	A4 – 11	O	Address data signal output
19	VSS	—	Ground
20 – 26	A12 – 18	O	Address data signal output
27	PA3	I	Test pin (Connect to ground.)
28	VSS	—	Ground
29	PA4	I	Test pin (Connect to ground.)
30	PA5	I	Connect to ground.
31	PA6	I	Reserve IRQ PULL UP signal input
32	MPEGHREQ	I	Reserve IRQ PULL UP signal input
33	MPEGREQ	I	MPEG interruption signal input
34	MREQ	I	Interruption input from PRIMO synchronization.
35, 36	VSS	—	Ground
37	XVFICID	I	PRIMO frame interruption signal input (24 ms)
38	BUSON	I	Interruption input from serial bus.
39	VCC	—	Power supply pin (+5 V)
40 – 43	D0 – 3	I/O	Data bus signal input/output
44	VSS	—	Ground
45 – 52	D4 – 11	I/O	Data bus signal input/output
53	VSS	—	Ground
54 – 57	D12 – 15	I/O	Data bus signal input/output
58	VCC	—	Power supply pin (+5 V)
59	MBUSSO	O	M bus data signal output
60	UNISO	O	Serial bus data signal output
61	MBUSSI	I	M bus data signal input
62	UNISI	I	Serial bus data signal input
63	MBUSCKO	O	M bus clock signal output
64	UNICKI	I	Serial bus clock signal input
65	VSS	—	Ground
66	FSCONV ERRIN	I	FSCONV error signal input
67, 68	VSS	—	Ground
69	$\overline{\text{DRC BUSYIN}}$	I	DRC status read signal input
70	XMPEG RST	O	MPEG reset signal output (Reserve)
71	SEL G	O	Data select signal output. L : Data change
72	S OUT	O	Serial bus data signal output
73	S CKO	O	Serial bus clock signal output
74 – 76	SEL 2 – 0	O	Data select signal output
77	DAC MUT	O	DAC mute signal output. H : Mute on
78	XA MUT	O	Analog mute signal output. L : Mute on
79	XDRC MUT	O	DRC mute signal output. L : Mute on
80	$\overline{\text{WDTOVF}}$	—	Watch dog (Open)
81	SYSRST	I	System reset signal input
82	BU IN	I	Battry power supply check signal input
83	$\overline{\text{STBY}}$	I	Standby signal input
84	VCC	—	Power supply pin (+5 V)
85	XTAL	I	System clock signal input (18.432 kHz)

Pin No.	Pin Name	I/O	Pin Description
86	EXTAL	O	System clock signal output (18.432 kHz)
87	VSS	—	Ground
88	Ø	—	Test pin (Open)
89	VCC	—	Power supply pin (+5 V)
90	$\overline{AS}$	O	Address strobe signal output (Open)
91	$\overline{RD}$	O	Read signal output
92	$\overline{HWR}$	O	High light signal output
93	$\overline{LWR}$	O	Low light signal output
94	LNKOFF	O	Serial bus link signal output. H : Link off, L : Link on
95	XUNI SEL CTL	O	Audio select signal output. L : Communication, H : DAB
96	ERR XFLASH	O	External output terminal for power supply. L : Communication, H : BER
97	EXTSO	O	Communication data signal output
98	EXTSI	I	Communication data signal input
99, 100	VSS	—	Ground
101	P5 2	O	Test pin (Open)
102	MBUS CTL	O	M BUS mode control signal output. H : Address, L : DATA
103	AVCC	—	Power supply pin (+5 V)
104	VREF	I/O	Reference voltage signal input/output
105	BU IN	I	Battry power supply check signal input
106	S IN	I	Serial data signal input
107	HR FLGIN	I	HR FLG signal input
108	AOUT CTRLIN	I	Audio out set up signal input. L : Digital, L : Analog
109	P4 4	I	Reserve input pin
110	P4 5	I	Reserve input pin
111	TEST MODEIN	I	Test mode select signal input. H : Test mode
112	AGC WATCHIN	I	AGC A/D signal input
113	AVSS	—	Ground
114	VSS	—	Ground
115	POWER DON	O	Digital power supply ON/OFF select signal output
116	SLAVE ON	O	Slave power supply ON/OFF select signal output
117	POWER AON	O	Analog power supply ON/OFF select signal output
118	DAB SEKOUT	O	Channel seek signal output
119	DAB BAND	O	L band, band III signal output
120	ANTREM	O	ANT remote ON/OFF select signal output. H : ON
121	I2CSO	O	PLL signal output
122	I2CCKO	O	PLL signal output
123 – 125	MD0 – 2	I	CPU mode set up signal input
126	PG0	O	Output port reserve signal output
127	XROM CS	O	Chip enable signal output
128	XRAM CS	O	Chip enable signal output

THIS NOTE IS COMMON FOR PRINTED WIRING BOARD AND SCHEMATIC DIAGRAM.
(In addition to this, the necessary note is printed in each block.)

Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- ⊥ : Analog ground.
- ⏚ : Digital ground.
- B+ : B+ Line.
- ▭ : adjustment for repair.
- Power voltage is connect to master unit, and dc 14.4V and fed with regulated dc power supply from master unit's ACC and BATT cords. (See page 2.)
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM

Note on Printed Wiring Board:

- ○——— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- ○ : Through hole.
- △ : internal component.
- ▒▒ : Pattern from the side which enables seeing. (The other layer's patterns are not indicated.)

Caution:
Pattern face side (Side B): Parts on the pattern face side seen from the pattern face are indicated.
Parts face side (Side A): Parts on the parts face side seen from the parts face are indicated.

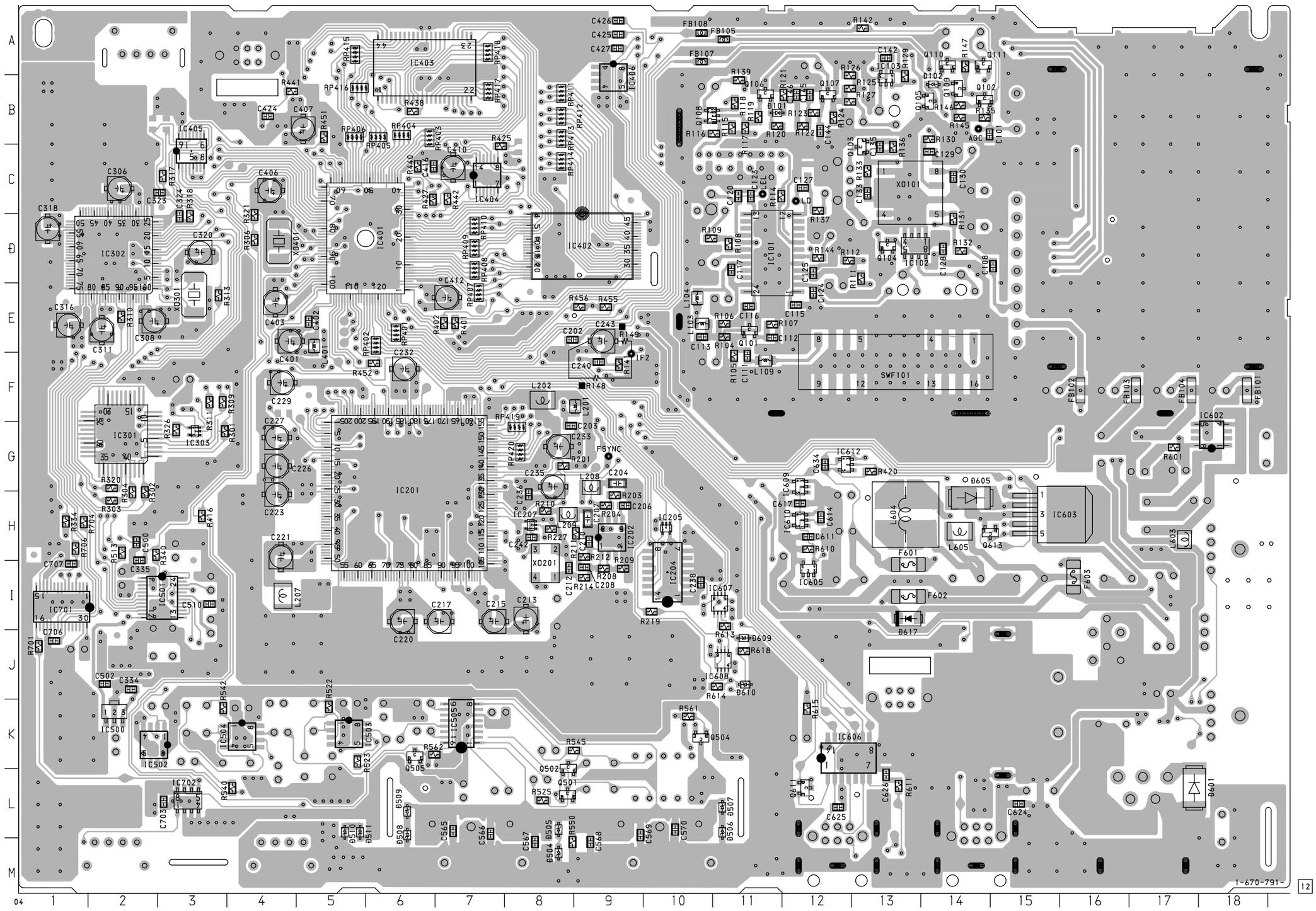
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D101	B-11	IC501	I-3
D102	B-14	IC502	K-2
(D501)	L-11	IC503	K-5
(D503)	L-8	IC504	K-3
D504	M-8	IC505	K-7
D505	L-8	(IC601)	K-18
D506	L-11	IC602	G-18
D507	L-11	IC603	H-16
D508	L-6	(IC604)	J-18
D509	L-6	IC605	I-12
D510	L-5	IC606	K-12
D511	L-5	IC607	I-11
D601	L-18	IC608	J-11
(D602)	H-17	IC609	H-12
(D603)	L-17	IC610	H-12
(D604)	H-18	(IC611)	I-18
D605	H-14	IC612	G-12
(D607)	L-12	IC701	I-1
(D608)	L-13	IC702	L-3
D609	J-11	(IC703)	M-4
D610	J-11	(IC704)	M-2
(D611)	H-14		
(D612)	H-13	Q101	E-11
(D613)	L-13	Q102	B-14
(D614)	L-12	Q103	C-13
(D615)	M-13	Q104	D-13
(D616)	J-12	Q105	B-13
D617	J-13	Q106	B-11
(D618)	L-17	Q107	B-12
		Q108	B-10
IC101	D-11	Q109	B-14
IC102	D-13	Q110	A-14
IC103	B-13	Q111	A-15
IC201	H-6	Q501	L-8
IC202	H-9	Q502	K-8
IC204	I-10	(Q503)	L-6
IC205	H-10	Q504	K-10
(IC206)	F-8	Q505	K-6
IC207	H-8	(Q601)	I-18
IC301	G-2	(Q602)	J-18
IC302	D-2	(Q603)	H-18
IC303	G-3	(Q606)	I-16
IC401	D-6	(Q607)	H-15
IC402	D-9	(Q608)	G-14
IC403	A-6	(Q609)	H-13
IC404	C-7	(Q610)	H-13
IC405	C-3	Q611	L-12
IC406	B-9	Q613	H-15
IC500	K-2		

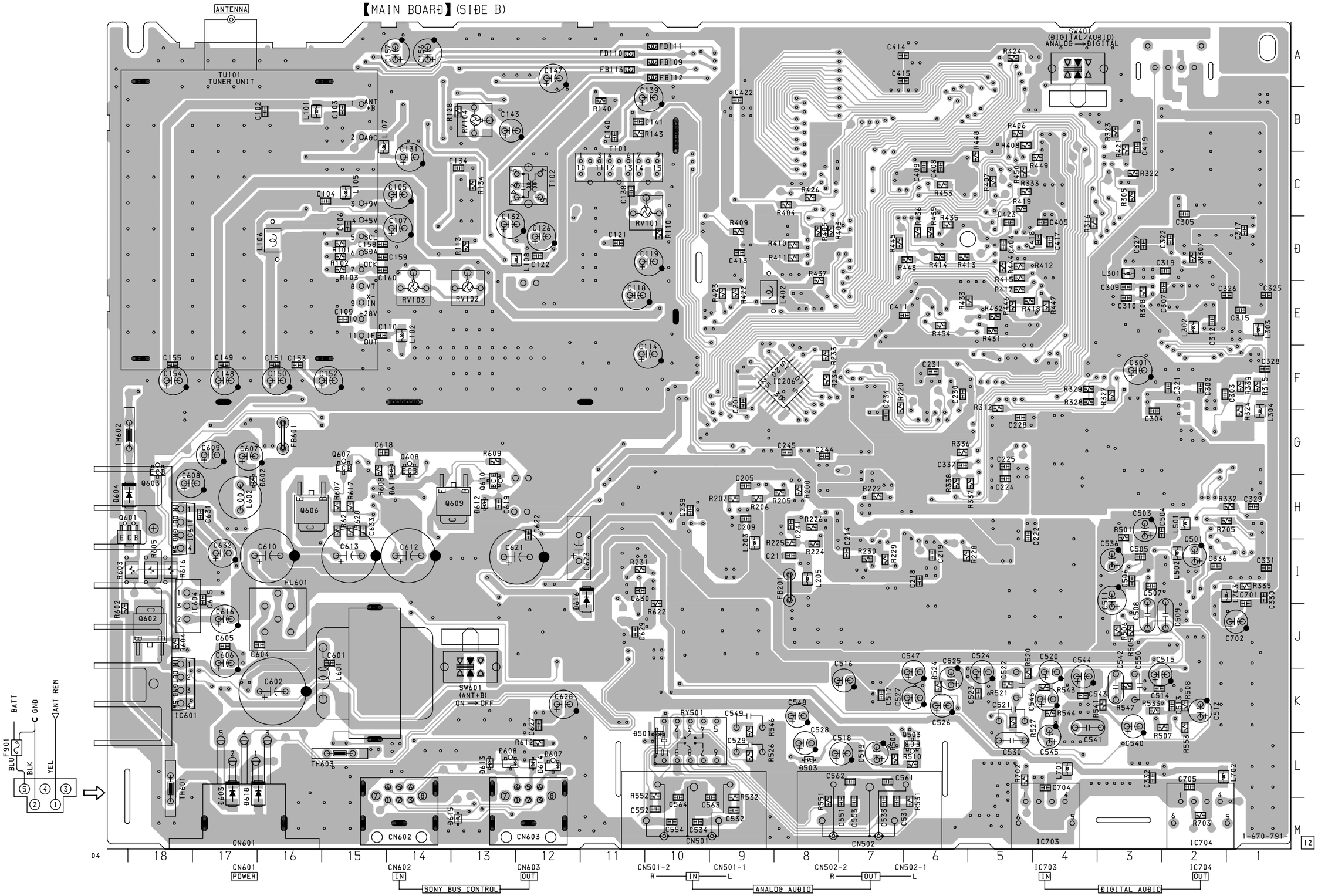
( ) : SIDE B

4-4. PRINTED WIRING BOARD • Refer to page 20 for Semiconductor Location.

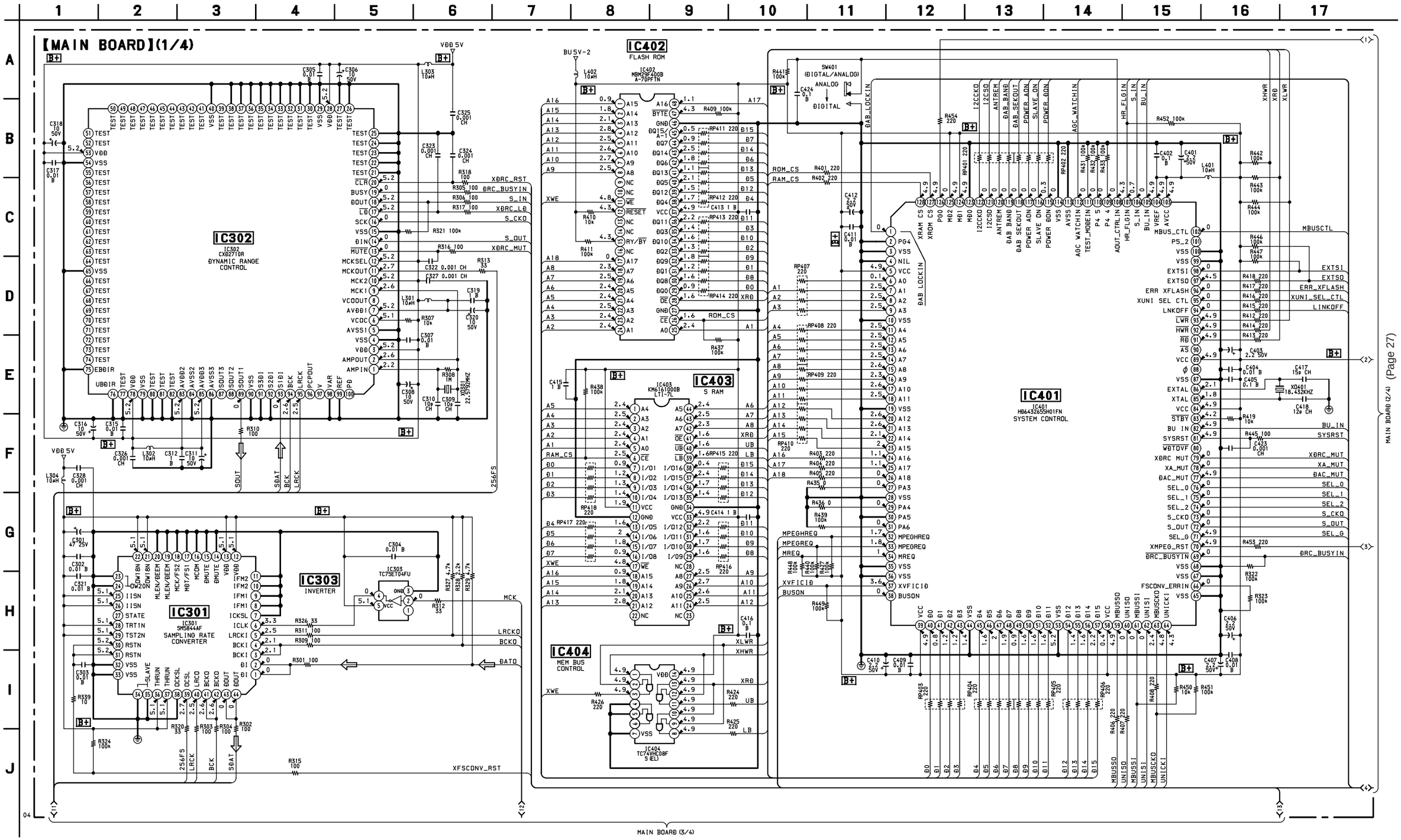
【MAIN BOARD】(SIDE A)



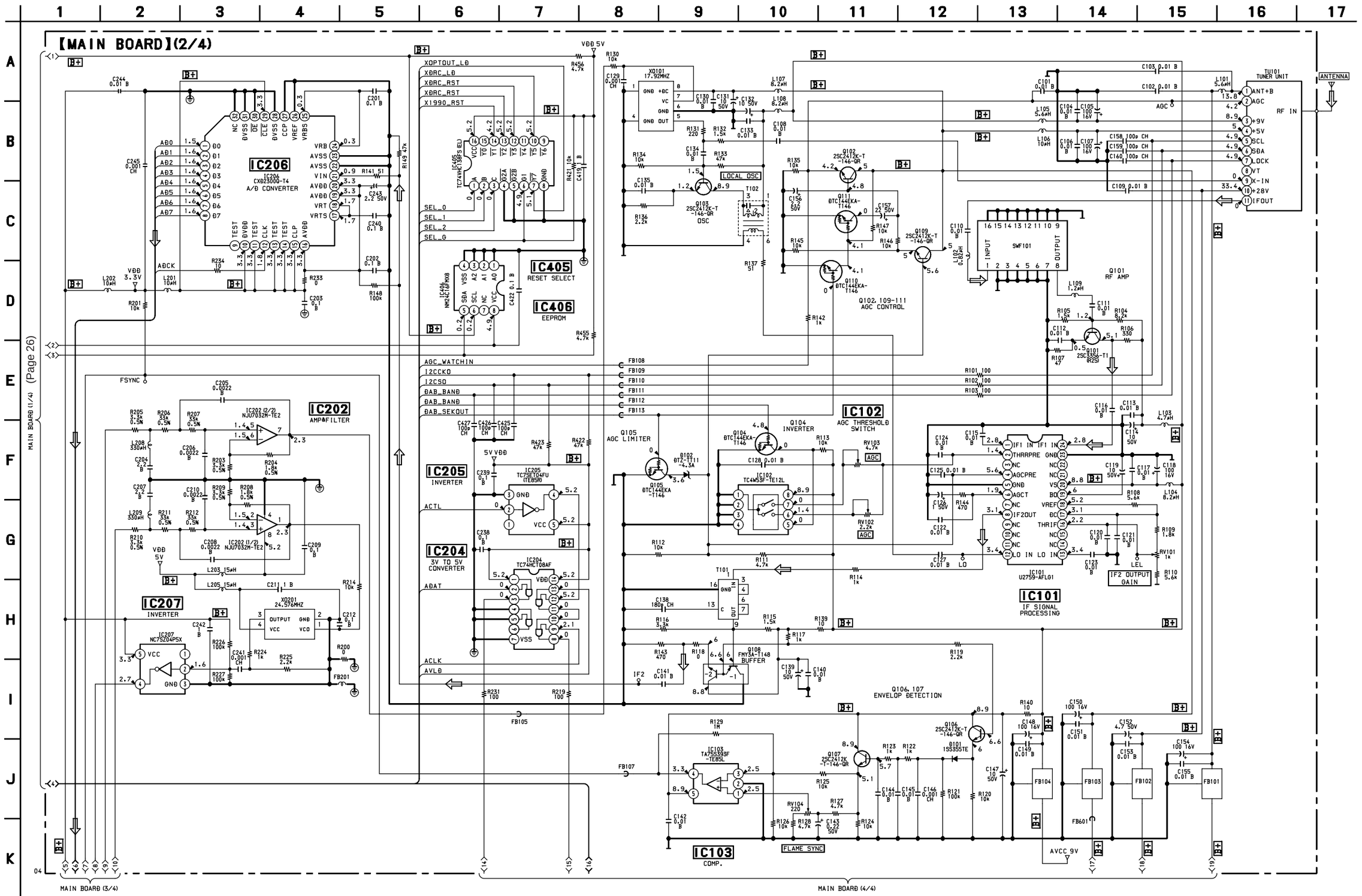
【MAIN BOARD】(SIDE B)



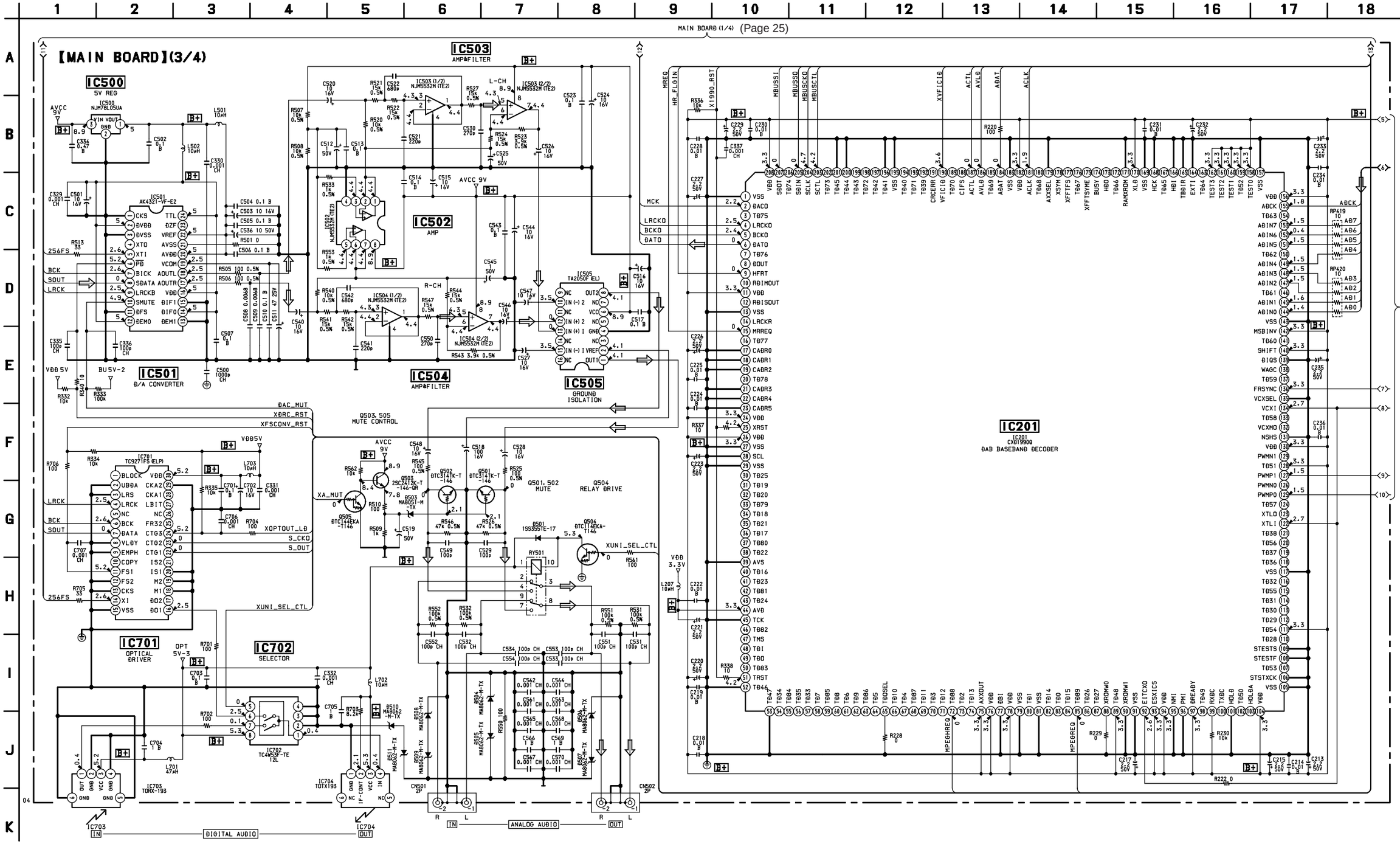
4-5. SCHEMATIC DIAGRAM — MAIN BOARD (1/4) — • Refer to page 34 for IC Block Diagrams.



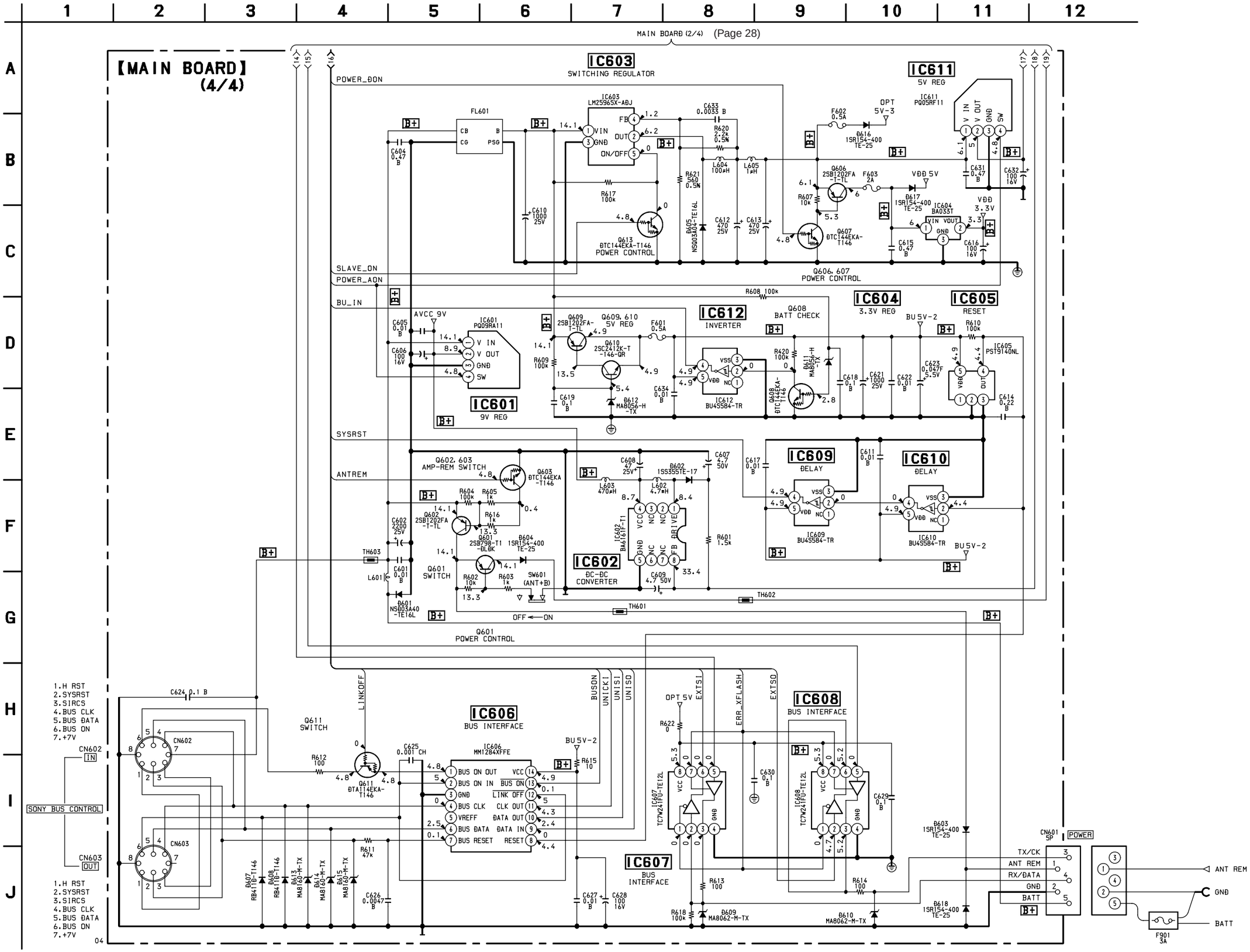
4-6. SCHEMATIC DIAGRAM — MAIN BOARD (2/4) — • Refer to page 33 for IC Block Diagrams.



4-7. SCHEMATIC DIAGRAM — MAIN BOARD (3/4) — • Refer to page 34 for IC Block Diagrams.



4-8. SCHEMATIC DIAGRAM — MAIN BOARD (4/4) — • Refer to page 35 for IC Block Diagrams.



• IC Block Diagrams

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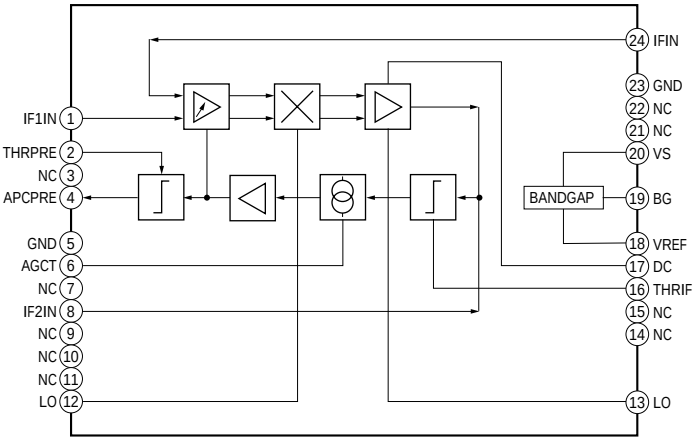
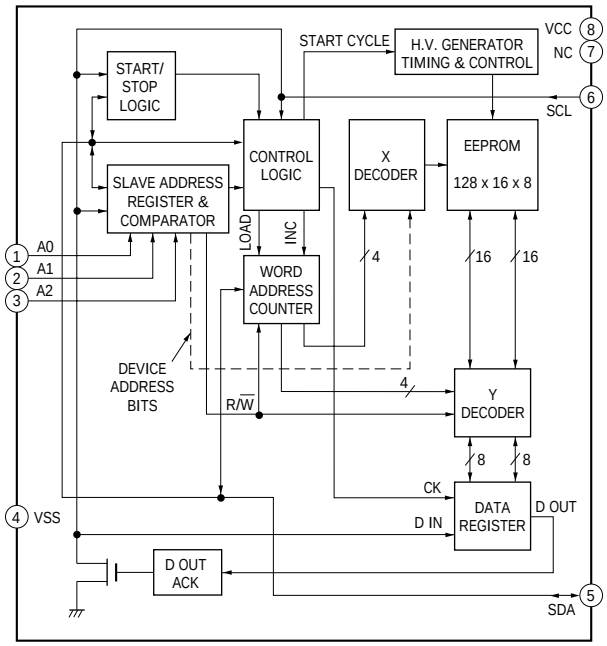
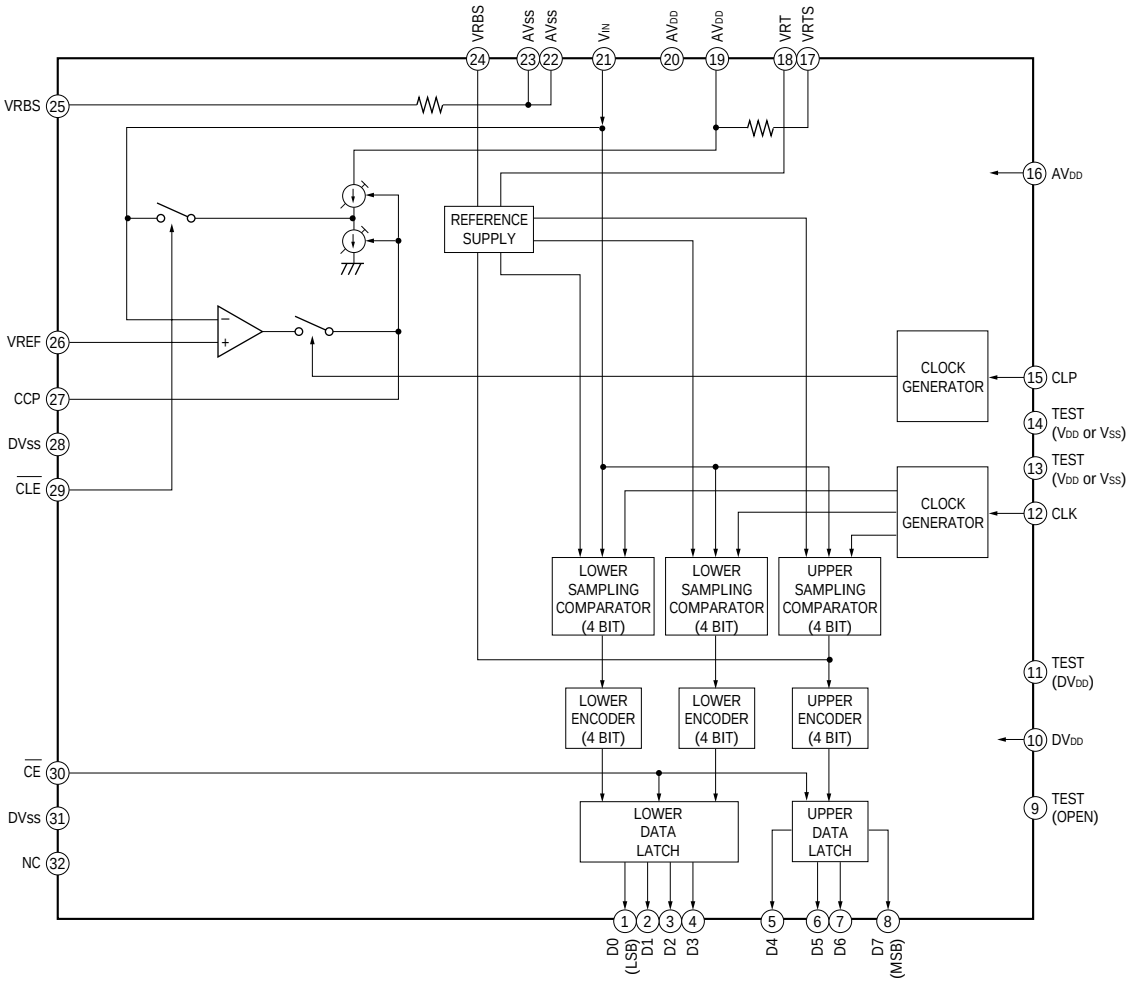


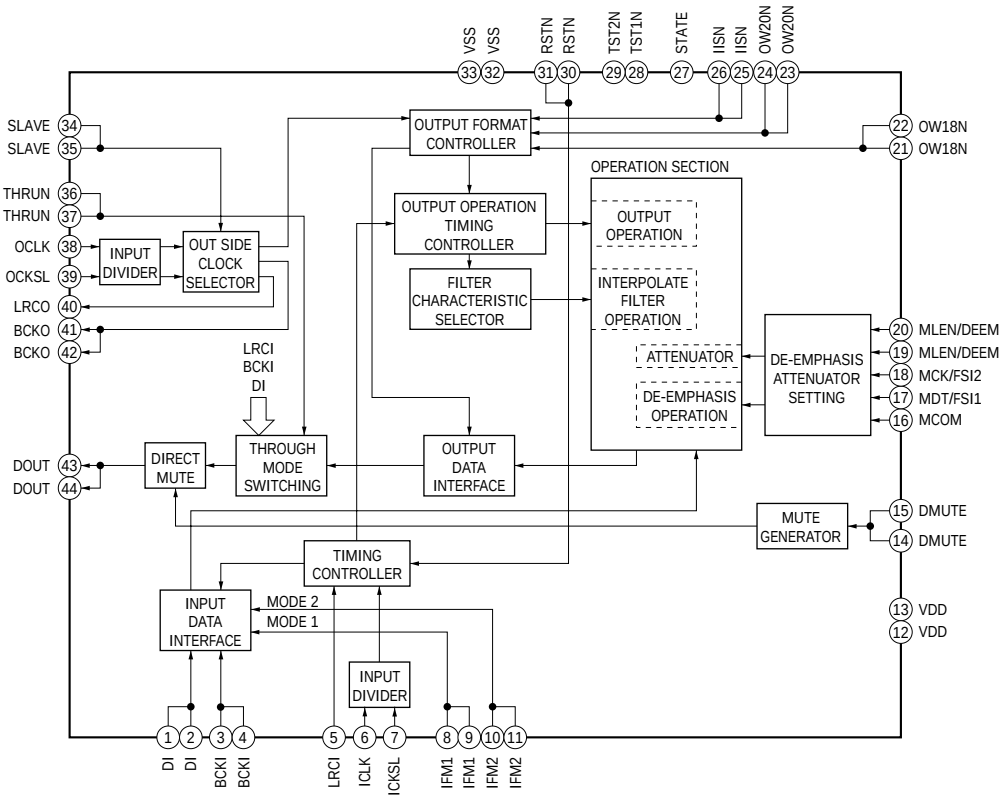
IC406 NM24C16FMX8



IC206 CXD2300Q-T4



IC301 SM5844AF



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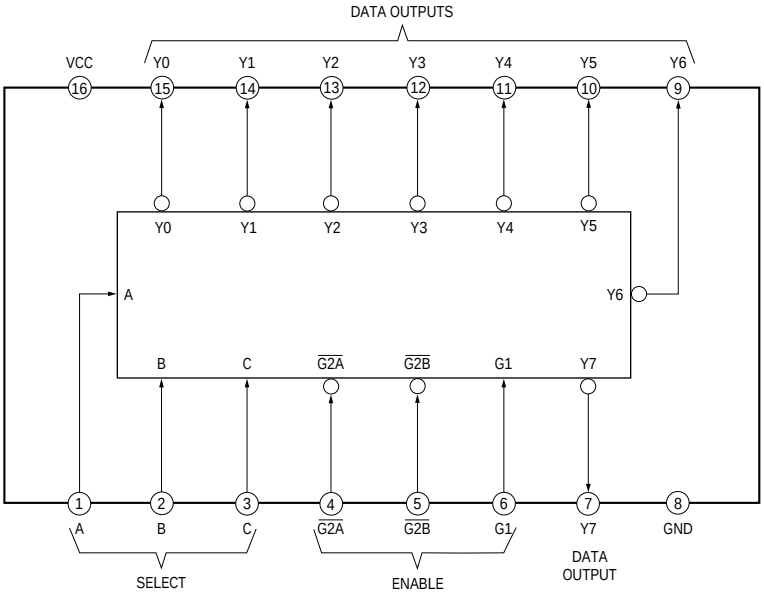
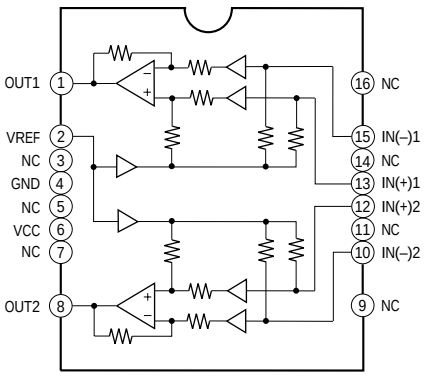


IC505 TA2050F(EL)



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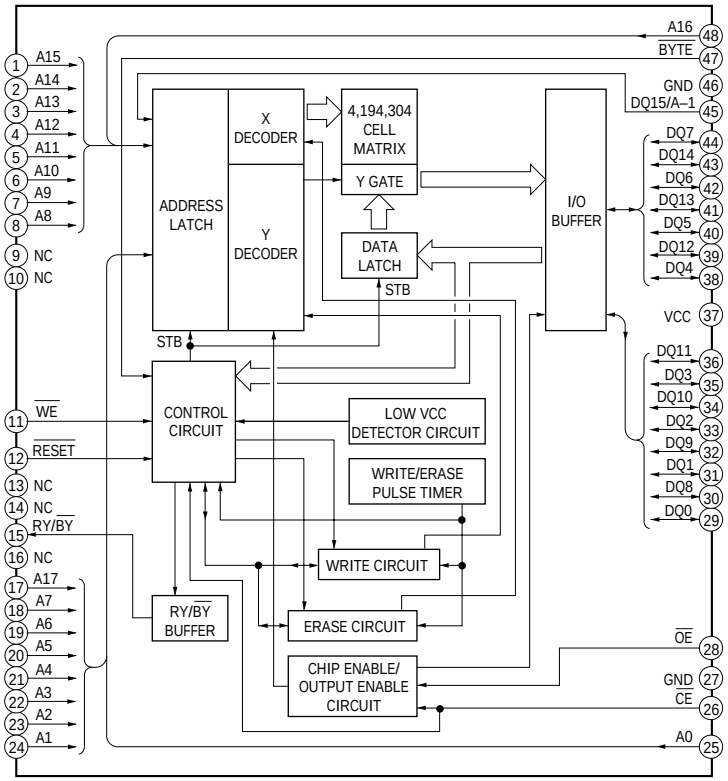

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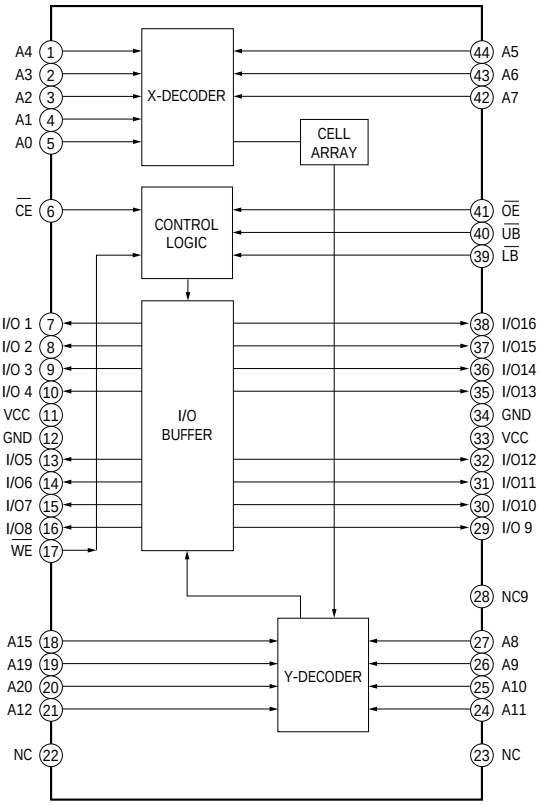

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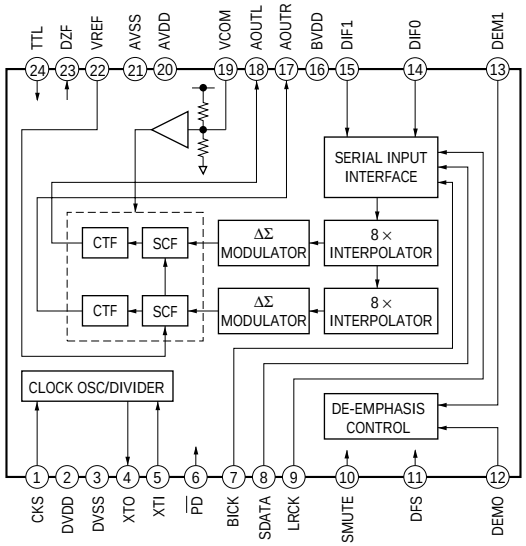
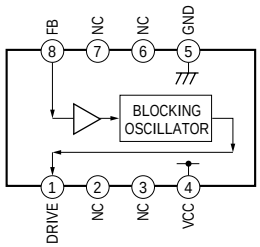
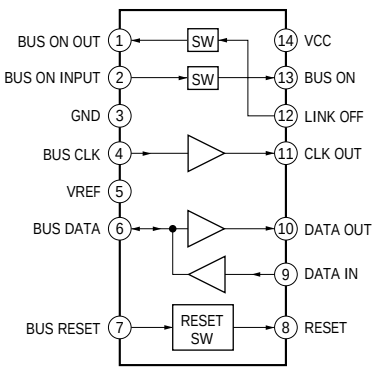


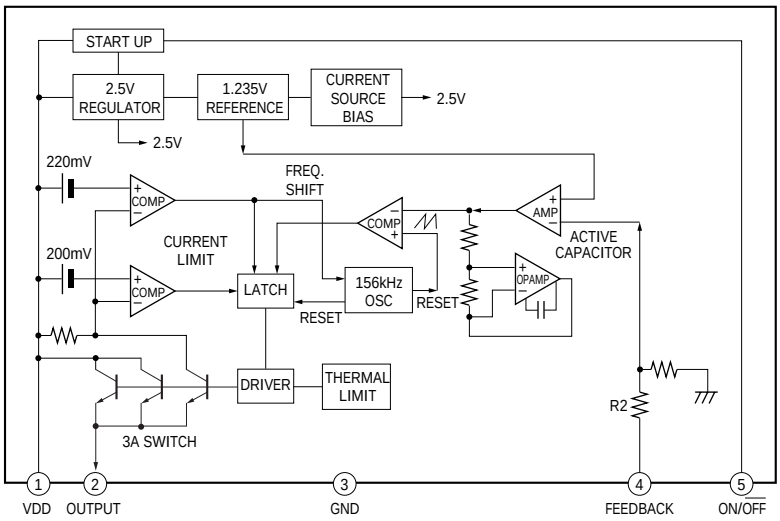
IC602 BA6161F-T1



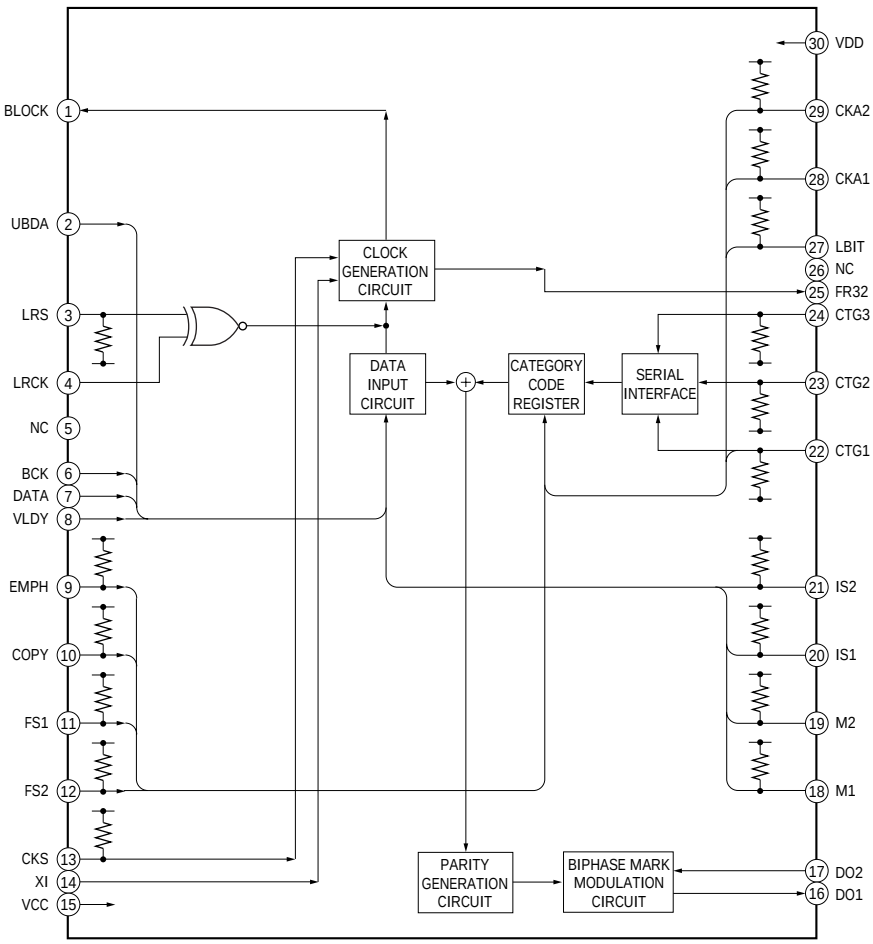
IC606 MM1284XFFE



IC603 LM2596SX-ADJ

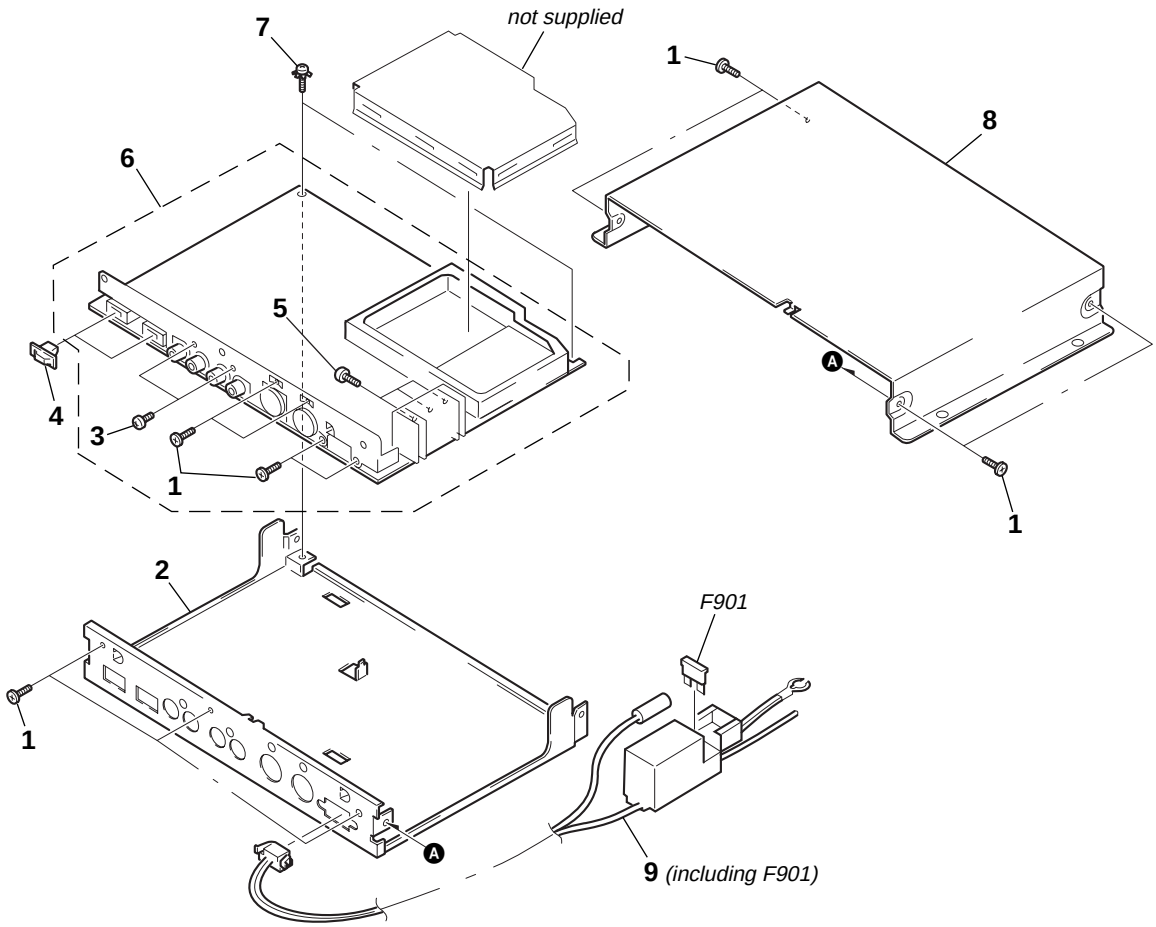


IC701 TC9271FS(ELP)



SECTION 5
EXPLODED VIEW

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Accessories and packing materials are given in the last of this parts list.



Ref. No.	Part No.	Description	Remark
1	7-685-790-09	SCREW +PTT 2.6X4 (S)	
* 2	3-019-840-01	CASE (LOWER)	
3	3-938-183-11	SCREW	
4	3-924-924-01	COVER (LIGHT)	
5	7-685-752-01	SCREW +PTT 3X8 (S)	

Ref. No.	Part No.	Description	Remark
* 6	A-3317-026-A	MAIN BOARD, COMPLETE	
7	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT	
* 8	3-019-839-01	CASE (UPPER)	
9	1-790-068-11	CORD (WITH CONNECTOR) (POWER)	
F901	1-532-731-11	FUSE (BLADE TYPE) (AUTO FUSE) 3A	

MAIN

SECTION 6
ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ, for example:
  uA.. : μA.. uPA.. : μPA..
  uPB.. : μPB.. uPC.. : μPC.. uPD.. : μPD..
- CAPACITORS
  uF : μF
- COILS
  uH : μH

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	A-3317-026-A	MAIN BOARD, COMPLETE			
		**********			
	3-938-183-11	SCREW			
	7-685-752-01	SCREW +PTT 3X8 (S)			
	7-685-790-09	SCREW +PTT 2.6X4 (S)			
		< CAPACITOR >			
C101	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C102	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C103	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C104	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C105	1-128-526-11	ELECT	100uF	20%	16V
C106	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C107	1-128-526-11	ELECT	100uF	20%	16V
C108	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C109	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C110	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C111	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C112	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C113	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C114	1-107-906-11	ELECT	10uF	20%	50V
C115	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C116	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C117	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C118	1-128-526-11	ELECT	100uF	20%	16V
C119	1-107-906-11	ELECT	10uF	20%	50V
C120	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C121	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C122	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C123	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C124	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C125	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C126	1-107-902-11	ELECT	1uF	20%	50V
C127	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C128	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C129	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C130	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C131	1-107-906-11	ELECT	10uF	20%	50V
C132	1-107-906-11	ELECT	10uF	20%	50V
C133	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C134	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C135	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C138	1-163-257-11	CERAMIC CHIP	180PF	5%	50V
C139	1-107-906-11	ELECT	10uF	20%	50V

Ref. No.	Part No.	Description			Remark
C140	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C141	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C142	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C143	1-111-248-11	ELECT	0.22uF	20%	50V
C144	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C145	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C146	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C147	1-107-906-11	ELECT	10uF	20%	50V
C148	1-128-526-11	ELECT	100uF	20%	16V
C149	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C150	1-128-526-11	ELECT	100uF	20%	16V
C151	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C152	1-107-905-11	ELECT	4.7uF	20%	50V
C153	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C154	1-128-526-11	ELECT	100uF	20%	16V
C155	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C156	1-107-903-11	ELECT	2.2uF	20%	50V
C157	1-107-907-11	ELECT	22uF	20%	50V
C158	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C159	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C160	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C201	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C202	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C203	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C204	1-115-565-11	CERAMIC CHIP	2.2uF	10%	10V
C205	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C206	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C207	1-115-565-11	CERAMIC CHIP	2.2uF	10%	10V
C208	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C209	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C210	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C211	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C212	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C213	1-126-402-11	ELECT CHIP	2.2uF	20%	50V
C214	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C215	1-126-402-11	ELECT CHIP	2.2uF	20%	50V
C217	1-126-402-11	ELECT CHIP	2.2uF	20%	50V
C218	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C219	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C220	1-126-402-11	ELECT CHIP	2.2uF	20%	50V
C221	1-126-402-11	ELECT CHIP	2.2uF	20%	50V
C222	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C223	1-126-402-11	ELECT CHIP	2.2uF	20%	50V
C224	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C225	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V

Ref. No.	Part No.	Description			Remark
C226	1-126-402-11	ELECT CHIP	2.2uF	20%	50V
C227	1-126-402-11	ELECT CHIP	2.2uF	20%	50V
C228	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C229	1-126-402-11	ELECT CHIP	2.2uF	20%	50V
C230	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C231	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C232	1-126-402-11	ELECT CHIP	2.2uF	20%	50V
C233	1-126-402-11	ELECT CHIP	2.2uF	20%	50V
C234	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C235	1-126-402-11	ELECT CHIP	2.2uF	20%	50V
C236	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C238	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C239	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C240	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C241	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C242	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C243	1-126-402-11	ELECT CHIP	2.2uF	20%	50V
C244	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C245	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C301	1-107-888-11	ELECT	47uF	20%	25V
C302	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C303	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C304	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C305	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C306	1-126-405-11	ELECT CHIP	10uF	20%	50V
C307	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C308	1-126-405-11	ELECT CHIP	10uF	20%	50V
C309	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C310	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C311	1-126-405-11	ELECT CHIP	10uF	20%	50V
C312	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C315	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C316	1-126-405-11	ELECT CHIP	10uF	20%	50V
C317	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C318	1-126-405-11	ELECT CHIP	10uF	20%	50V
C319	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C320	1-126-405-11	ELECT CHIP	10uF	20%	50V
C321	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C322	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C323	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C324	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C325	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C326	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C327	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C328	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C329	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C330	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C331	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C332	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C334	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C335	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C336	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C337	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C356	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C401	1-126-402-11	ELECT CHIP	2.2uF	20%	50V
C402	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C403	1-126-402-11	ELECT CHIP	2.2uF	20%	50V
C404	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C405	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C406	1-126-402-11	ELECT CHIP	2.2uF	20%	50V
C407	1-126-402-11	ELECT CHIP	2.2uF	20%	50V
C408	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C409	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C410	1-126-402-11	ELECT CHIP	2.2uF	20%	50V
C411	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C412	1-126-402-11	ELECT CHIP	2.2uF	20%	50V
C413	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C414	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C415	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C416	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C417	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C418	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C419	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C422	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C423	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C424	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C425	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C426	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C427	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C500	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C501	1-104-951-11	ELECT	10uF	20%	16V
C502	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C503	1-104-951-11	ELECT	10uF	20%	16V
C504	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C505	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C506	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C507	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C508	1-130-481-00	MYLAR	0.0068uF	5%	50V
C509	1-130-481-00	MYLAR	0.0068uF	5%	50V
C510	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C511	1-107-888-11	ELECT	47uF	20%	25V
C512	1-104-942-11	ELECT	1uF	20%	50V
C513	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C514	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C515	1-104-951-11	ELECT	10uF	20%	16V
C516	1-104-951-11	ELECT	10uF	20%	16V
C517	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C518	1-128-526-11	ELECT	100uF	20%	16V
C519	1-104-942-11	ELECT	1uF	20%	50V
C520	1-104-951-11	ELECT	10uF	20%	16V
C521	1-137-360-11	FILM	220PF	5%	50V
C522	1-136-357-11	FILM	680PF	5%	50V
C523	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C524	1-104-951-11	ELECT	10uF	20%	16V
C525	1-104-942-11	ELECT	1uF	20%	50V
C526	1-104-951-11	ELECT	10uF	20%	16V

MAIN

Ref. No.	Part No.	Description			Remark
C527	1-104-951-11	ELECT	10uF	20%	16V
C528	1-104-951-11	ELECT	10uF	20%	16V
C529	1-137-358-11	FILM	0.0001uF	5%	50V
C530	1-137-429-11	FILM	270PF	5%	50V
C531	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C532	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C533	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C534	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C536	1-107-906-11	ELECT	10uF	20%	50V
C540	1-104-951-11	ELECT	10uF	20%	16V
C541	1-137-360-11	FILM	220PF	5%	50V
C542	1-136-357-11	FILM	680PF	5%	50V
C543	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C544	1-104-951-11	ELECT	10uF	20%	16V
C545	1-104-942-11	ELECT	1uF	20%	50V
C546	1-104-951-11	ELECT	10uF	20%	16V
C547	1-104-951-11	ELECT	10uF	20%	16V
C548	1-104-951-11	ELECT	10uF	20%	16V
C549	1-137-358-11	FILM	0.0001uF	5%	50V
C550	1-137-429-11	FILM	270PF	5%	50V
C551	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C552	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C553	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C554	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C561	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C562	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C563	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C564	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C565	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C566	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C567	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C568	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C569	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C570	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C601	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C602	1-107-890-11	ELECT	2200uF	20%	25V
C604	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C605	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C606	1-128-526-11	ELECT	100uF	20%	16V
C607	1-107-905-11	ELECT	4.7uF	20%	50V
C608	1-107-888-11	ELECT	47uF	20%	25V
C609	1-107-905-11	ELECT	4.7uF	20%	50V
C610	1-107-914-11	ELECT	1000uF	20%	25V
C611	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C612	1-128-528-11	ELECT	470uF	20%	25V
C613	1-128-528-11	ELECT	470uF	20%	25V
C614	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C615	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C616	1-128-526-11	ELECT	100uF	20%	16V
C617	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C618	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C619	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C621	1-107-914-11	ELECT	1000uF	20%	25V

Ref. No.	Part No.	Description			Remark
C622	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C623	1-125-701-11	DOUBLE LAYERS	0.047F		5.5V
C624	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C625	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C626	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C627	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C628	1-128-526-11	ELECT	100uF	20%	16V
C629	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C630	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C631	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C632	1-128-526-11	ELECT	100uF	20%	16V
C633	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C634	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C701	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C702	1-104-951-11	ELECT	10uF	20%	16V
C703	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C704	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C705	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C706	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C707	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
		< JACK >			
CN501	1-569-181-51	JACK, PIN 2P (ANALOG AUDIO IN)			
CN502	1-569-181-51	JACK, PIN 2P (ANALOG AUDIO OUT)			
		< CONNECTOR >			
CN601	1-569-216-41	CONNECTOR (POWER)			
CN602	1-580-907-31	PLUG, CONNECTOR (SONY BUS CONTROL IN)			
CN603	1-580-907-31	PLUG, CONNECTOR (SONY BUS CONTROL OUT)			
		< DIODE >			
D101	8-719-988-62	DIODE 1SS355			
D102	8-719-056-78	DIODE DTZ-TT11-4.3A			
D501	8-719-988-62	DIODE 1SS355			
D503	8-719-420-90	DIODE MA8051-M			
D504	8-719-422-64	DIODE MA8062-M			
D505	8-719-422-64	DIODE MA8062-M			
D506	8-719-422-64	DIODE MA8062-M			
D507	8-719-422-64	DIODE MA8062-M			
D508	8-719-422-64	DIODE MA8062-M			
D509	8-719-422-64	DIODE MA8062-M			
D510	8-719-422-64	DIODE MA8062-M			
D511	8-719-422-64	DIODE MA8062-M			
D601	8-719-041-36	DIODE NSD03A40-TE16L			
D602	8-719-988-62	DIODE 1SS355			
D603	8-719-053-18	DIODE 1SR154-400TE-25			
D604	8-719-053-18	DIODE 1SR154-400TE-25			
D605	8-719-028-74	DIODE NSQ03A04			
D607	8-719-975-40	DIODE RB411D			
D608	8-719-975-40	DIODE RB411D			
D609	8-719-422-64	DIODE MA8062-M			
D610	8-719-422-64	DIODE MA8062-M			
D611	8-719-977-03	DIODE DTZ5.6B			

Ref. No.	Part No.	Description	Remark
D612	8-719-422-49	DIODE MA8056-L	
D613	8-719-022-90	DIODE MA8160M	
D614	8-719-022-90	DIODE MA8160M	
D615	8-719-022-90	DIODE MA8160M	
D616	8-719-053-18	DIODE 1SR154-400TE-25	
D617	8-719-053-18	DIODE 1SR154-400TE-25	
D618	8-719-053-18	DIODE 1SR154-400TE-25	
		< FUSE >	
F601	1-533-271-21	FUSE, CHIP (0.5A)	
F602	1-533-271-21	FUSE, CHIP (0.5A)	
F603	1-533-351-11	FUSE, CHIP (2A)	
		< FERRITE BEAD >	
FB101	1-239-899-21	FILTER, CHIP EMI	
FB102	1-239-899-21	FILTER, CHIP EMI	
FB103	1-239-899-21	FILTER, CHIP EMI	
FB104	1-239-899-21	FILTER, CHIP EMI	
FB105	1-414-552-11	FERRITE (SMD), EMI	
FB107	1-414-552-11	FERRITE (SMD), EMI	
FB108	1-414-552-11	FERRITE (SMD), EMI	
FB109	1-469-142-21	FERRITE (SMD), EMI	
FB110	1-469-142-21	FERRITE (SMD), EMI	
FB111	1-469-142-21	FERRITE (SMD), EMI	
FB112	1-469-142-21	FERRITE (SMD), EMI	
FB113	1-469-142-21	FERRITE (SMD), EMI	
FB201	1-412-080-11	FERRITE BEAD INDUCTOR	
FB601	1-412-080-11	FERRITE BEAD INDUCTOR	
		< NOISE FILTER >	
FL601	1-421-773-11	FILTER, NOISE REMOVAL	
		< IC >	
IC101	8-759-540-99	IC U2759-AFLG1	
IC102	8-759-242-64	IC TC4W53F	
IC103	8-759-075-70	IC TA78S393F	
IC201	8-752-389-67	IC CXD1990Q	
IC202	8-759-528-48	IC NJU7032M-TE2	
IC204	8-759-239-94	IC TC74HCT08AF	
IC205	8-759-478-92	IC TC7SET04FU(TE85R)	
IC206	8-752-352-09	IC CXD2300Q	
IC207	8-759-557-84	IC NC7SZ04P5X	
IC301	8-759-375-46	IC SM5844AF	
IC302	8-752-372-30	IC CXD2710R	
IC303	8-759-478-92	IC TC7SET04FU(TE85R)	
IC401	8-759-540-98	IC HD6432655H01FN	
IC402	8-759-384-54	IC MBM29F400BA-70PFTN	
IC403	8-759-528-29	IC KM6161000BLTI-7L	
IC404	8-759-079-52	IC TC74VHC08FS(EL)	
IC405	8-759-079-70	IC TC74VHC138FS(EL)	
IC406	8-759-454-79	IC NM24C16FMX8	
IC500	8-759-711-58	IC NJM78L05UA	
IC501	8-759-455-21	IC AK4321-VF-E2	

Ref. No.	Part No.	Description	Remark
IC502	8-759-700-94	IC NJM5532M	
IC503	8-759-700-94	IC NJM5532M	
IC504	8-759-700-94	IC NJM5532M	
IC505	8-759-262-37	IC TA2050F(EL)	
IC601	8-759-528-47	IC PQ09RA11	
IC602	8-759-945-44	IC BA6161F	
IC603	8-759-531-95	IC LM2596SX-ADJ	
IC604	8-759-445-59	IC BA033T	
IC605	8-759-326-78	IC PST9140NL	
IC606	8-759-284-87	IC MM1284XFFE	
IC607	8-759-362-52	IC TC7W241FU-TE12L	
IC608	8-759-362-52	IC TC7W241FU-TE12L	
IC609	8-759-386-68	IC BU4S584-TR	
IC610	8-759-386-68	IC BU4S584-TR	
IC611	8-759-069-28	IC PQ05RF11	
IC612	8-759-386-68	IC BU4S584-TR	
IC701	8-759-432-89	IC TC9271FS(ELP)	
IC702	8-759-242-64	IC TC4W53F	
IC703	8-749-923-62	IC TORX193 (DIGITAL AUDIO IN)	
IC704	8-749-923-53	IC TOTX193 (DIGITAL AUDIO OUT)	
		< COIL >	
L101	1-412-948-11	INDUCTOR 5.6uH	
L102	1-412-938-11	INDUCTOR 0.82uH	
L103	1-412-947-11	INDUCTOR 4.7uH	
L104	1-412-950-11	INDUCTOR 8.2uH	
L105	1-412-948-11	INDUCTOR 5.6uH	
L106	1-414-431-11	INDUCTOR 10uH	
L107	1-412-950-11	INDUCTOR 8.2uH	
L108	1-412-950-11	INDUCTOR 8.2uH	
L109	1-412-940-21	INDUCTOR 1.2uH	
L201	1-412-951-11	INDUCTOR 10uH	
L202	1-414-431-11	INDUCTOR 10uH	
L203	1-412-953-11	INDUCTOR 15uH	
L205	1-412-953-11	INDUCTOR 15uH	
L207	1-414-431-11	INDUCTOR 10uH	
L208	1-412-584-11	INDUCTOR 330uH	
L209	1-412-584-11	INDUCTOR 330uH	
L301	1-412-951-11	INDUCTOR 10uH	
L302	1-412-951-11	INDUCTOR 10uH	
L303	1-412-951-11	INDUCTOR 10uH	
L304	1-412-951-11	INDUCTOR 10uH	
L401	1-412-951-11	INDUCTOR 10uH	
L402	1-414-431-11	INDUCTOR 10uH	
L501	1-412-951-11	INDUCTOR 10uH	
L502	1-412-951-11	INDUCTOR 10uH	
L601	1-421-369-00	CHOKE COIL	
L602	1-410-771-11	INDUCTOR 4.7mH	
L603	1-412-282-41	INDUCTOR 470uH	
L604	1-414-529-21	INDUCTOR CHIP 100uH	
L605	1-414-388-21	INDUCTOR 1uH	
L701	1-412-959-11	INDUCTOR 47uH	
L702	1-412-951-11	INDUCTOR 10uH	

MAIN

Ref. No.	Part No.	Description			Remark
L703	1-412-951-11	INDUCTOR	10uH		
		< TRANSISTOR >			
Q101	8-729-145-13	TRANSISTOR	2SC3356-(R25)		
Q102	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q103	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q104	1-801-806-11	TRANSISTOR	DTC144EKA-T146		
Q105	1-801-806-11	TRANSISTOR	DTC144EKA-T146		
Q106	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q107	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q108	8-729-026-58	TRANSISTOR	FMY3A-T148		
Q109	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q110	1-801-806-11	TRANSISTOR	DTC144EKA-T146		
Q111	1-801-806-11	TRANSISTOR	DTC144EKA-T146		
Q501	8-729-920-21	TRANSISTOR	DTC314TKH04		
Q502	8-729-920-21	TRANSISTOR	DTC314TKH04		
Q503	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q504	8-729-900-53	TRANSISTOR	DTC114EK		
Q505	1-801-806-11	TRANSISTOR	DTC144EKA-T146		
Q601	8-729-101-07	TRANSISTOR	2SB798-DL		
Q602	8-729-019-03	TRANSISTOR	2SB1202FA-T-TL		
Q603	1-801-806-11	TRANSISTOR	DTC144EKA-T146		
Q606	8-729-019-03	TRANSISTOR	2SB1202FA-T-TL		
Q607	1-801-806-11	TRANSISTOR	DTC144EKA-T146		
Q608	1-801-806-11	TRANSISTOR	DTC144EKA-T146		
Q609	8-729-019-03	TRANSISTOR	2SB1202FA-T-TL		
Q610	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q611	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q613	1-801-806-11	TRANSISTOR	DTC144EKA-T146		
		< RESISTOR >			
R101	1-216-025-00	RES,CHIP	100	5%	1/10W
R102	1-216-025-00	RES,CHIP	100	5%	1/10W
R103	1-216-025-00	RES,CHIP	100	5%	1/10W
R104	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R105	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R106	1-216-037-00	METAL CHIP	330	5%	1/10W
R107	1-216-017-00	RES,CHIP	47	5%	1/10W
R108	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R109	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R110	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R111	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R112	1-216-073-00	METAL CHIP	10K	5%	1/10W
R113	1-216-073-00	METAL CHIP	10K	5%	1/10W
R114	1-216-049-11	RES,CHIP	1K	5%	1/10W
R115	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R116	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R117	1-216-049-11	RES,CHIP	1K	5%	1/10W
R118	1-216-295-00	SHORT	0		
R119	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R120	1-216-073-00	METAL CHIP	10K	5%	1/10W
R121	1-216-097-00	RES,CHIP	100K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R122	1-216-049-11	RES,CHIP	1K	5%	1/10W
R123	1-216-049-11	RES,CHIP	1K	5%	1/10W
R124	1-216-073-00	METAL CHIP	10K	5%	1/10W
R125	1-216-073-00	METAL CHIP	10K	5%	1/10W
R126	1-216-073-00	METAL CHIP	10K	5%	1/10W
R127	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R128	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R129	1-216-121-00	RES,CHIP	1M	5%	1/10W
R130	1-216-073-00	METAL CHIP	10K	5%	1/10W
R131	1-216-033-00	METAL CHIP	220	5%	1/10W
R132	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R133	1-216-089-00	RES,CHIP	47K	5%	1/10W
R134	1-216-073-00	METAL CHIP	10K	5%	1/10W
R135	1-216-073-00	METAL CHIP	10K	5%	1/10W
R136	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R137	1-216-018-00	METAL CHIP	51	5%	1/10W
R139	1-216-001-00	METAL CHIP	10	5%	1/10W
R140	1-216-001-00	METAL CHIP	10	5%	1/10W
R141	1-216-018-00	METAL CHIP	51	5%	1/10W
R142	1-216-049-11	RES,CHIP	1K	5%	1/10W
R143	1-216-041-00	METAL CHIP	470	5%	1/10W
R144	1-216-041-00	METAL CHIP	470	5%	1/10W
R145	1-216-073-00	METAL CHIP	10K	5%	1/10W
R146	1-216-073-00	METAL CHIP	10K	5%	1/10W
R147	1-216-073-00	METAL CHIP	10K	5%	1/10W
R148	1-247-879-11	CARBON	100K	5%	1/4W
R149	1-249-437-11	CARBON	47K	5%	1/4W
R200	1-216-295-00	SHORT	0		
R201	1-216-073-00	METAL CHIP	10K	5%	1/10W
R203	1-208-794-11	RES,CHIP	3.3K	0.50%	1/10W
R204	1-208-788-11	RES,CHIP	1.8K	0.50%	1/10W
R205	1-208-794-11	RES,CHIP	3.3K	0.50%	1/10W
R206	1-208-818-11	RES,CHIP	33K	0.50%	1/10W
R207	1-208-818-11	RES,CHIP	33K	0.50%	1/10W
R208	1-208-788-11	RES,CHIP	1.8K	0.50%	1/10W
R209	1-208-794-11	RES,CHIP	3.3K	0.50%	1/10W
R210	1-208-794-11	RES,CHIP	3.3K	0.50%	1/10W
R211	1-208-818-11	RES,CHIP	33K	0.50%	1/10W
R212	1-208-818-11	RES,CHIP	33K	0.50%	1/10W
R214	1-216-073-00	METAL CHIP	10K	5%	1/10W
R219	1-216-025-00	RES,CHIP	100	5%	1/10W
R220	1-216-025-00	RES,CHIP	100	5%	1/10W
R222	1-216-295-00	SHORT	0		
R224	1-216-049-11	RES,CHIP	1K	5%	1/10W
R225	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R226	1-216-097-00	RES,CHIP	100K	5%	1/10W
R227	1-216-097-00	RES,CHIP	100K	5%	1/10W
R228	1-216-295-00	SHORT	0		
R229	1-216-295-00	SHORT	0		
R230	1-216-073-00	METAL CHIP	10K	5%	1/10W
R231	1-216-025-00	RES,CHIP	100	5%	1/10W
R233	1-216-295-00	SHORT	0		
R234	1-216-001-00	METAL CHIP	10	5%	1/10W

Ref. No.	Part No.	Description			Remark
R301	1-216-025-00	RES,CHIP	100	5%	1/10W
R302	1-216-025-00	RES,CHIP	100	5%	1/10W
R303	1-216-025-00	RES,CHIP	100	5%	1/10W
R304	1-216-025-00	RES,CHIP	100	5%	1/10W
R305	1-216-025-00	RES,CHIP	100	5%	1/10W
R306	1-216-025-00	RES,CHIP	100	5%	1/10W
R307	1-216-073-00	METAL CHIP	10K	5%	1/10W
R308	1-216-121-00	RES,CHIP	1M	5%	1/10W
R309	1-216-025-00	RES,CHIP	100	5%	1/10W
R310	1-216-025-00	RES,CHIP	100	5%	1/10W
R311	1-216-025-00	RES,CHIP	100	5%	1/10W
R312	1-216-013-00	METAL CHIP	33	5%	1/10W
R313	1-216-013-00	METAL CHIP	33	5%	1/10W
R315	1-216-025-00	RES,CHIP	100	5%	1/10W
R316	1-216-025-00	RES,CHIP	100	5%	1/10W
R317	1-216-025-00	RES,CHIP	100	5%	1/10W
R318	1-216-025-00	RES,CHIP	100	5%	1/10W
R320	1-216-013-00	METAL CHIP	33	5%	1/10W
R321	1-216-097-00	RES,CHIP	100K	5%	1/10W
R322	1-216-097-00	RES,CHIP	100K	5%	1/10W
R323	1-216-097-00	RES,CHIP	100K	5%	1/10W
R324	1-216-097-00	RES,CHIP	100K	5%	1/10W
R326	1-216-013-00	METAL CHIP	33	5%	1/10W
R327	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R328	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R329	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R332	1-216-073-00	METAL CHIP	10K	5%	1/10W
R333	1-216-097-00	RES,CHIP	100K	5%	1/10W
R334	1-208-806-11	RES,CHIP	10K	0.5%	1/10W
R335	1-216-073-00	METAL CHIP	10K	5%	1/10W
R336	1-216-073-00	METAL CHIP	10K	5%	1/10W
R337	1-216-001-00	METAL CHIP	10	5%	1/10W
R338	1-216-001-00	METAL CHIP	10	5%	1/10W
R339	1-216-001-00	METAL CHIP	10	5%	1/10W
R340	1-216-001-00	METAL CHIP	10	5%	1/10W
R401	1-216-033-00	METAL CHIP	220	5%	1/10W
R402	1-216-033-00	METAL CHIP	220	5%	1/10W
R403	1-216-033-00	METAL CHIP	220	5%	1/10W
R404	1-216-033-00	METAL CHIP	220	5%	1/10W
R405	1-216-033-00	METAL CHIP	220	5%	1/10W
R406	1-216-033-00	METAL CHIP	220	5%	1/10W
R407	1-216-033-00	METAL CHIP	220	5%	1/10W
R408	1-216-033-00	METAL CHIP	220	5%	1/10W
R409	1-216-097-00	RES,CHIP	100K	5%	1/10W
R410	1-216-073-00	METAL CHIP	10K	5%	1/10W
R411	1-216-097-00	RES,CHIP	100K	5%	1/10W
R412	1-216-033-00	METAL CHIP	220	5%	1/10W
R413	1-216-033-00	METAL CHIP	220	5%	1/10W
R414	1-216-033-00	METAL CHIP	220	5%	1/10W
R415	1-216-033-00	METAL CHIP	220	5%	1/10W
R416	1-216-033-00	METAL CHIP	220	5%	1/10W
R417	1-216-033-00	METAL CHIP	220	5%	1/10W
R418	1-216-033-00	METAL CHIP	220	5%	1/10W

Ref. No.	Part No.	Description			Remark
R419	1-216-073-00	METAL CHIP	10K	5%	1/10W
R420	1-216-097-00	RES,CHIP	100K	5%	1/10W
R421	1-216-073-00	METAL CHIP	10K	5%	1/10W
R422	1-216-089-00	RES,CHIP	47K	5%	1/10W
R423	1-216-089-00	RES,CHIP	47K	5%	1/10W
R424	1-216-033-00	METAL CHIP	220	5%	1/10W
R425	1-216-033-00	METAL CHIP	220	5%	1/10W
R426	1-216-033-00	METAL CHIP	220	5%	1/10W
R427	1-216-097-00	RES,CHIP	100K	5%	1/10W
R431	1-216-097-00	RES,CHIP	100K	5%	1/10W
R432	1-216-097-00	RES,CHIP	100K	5%	1/10W
R433	1-216-097-00	RES,CHIP	100K	5%	1/10W
R435	1-216-295-00	SHORT	0		
R436	1-216-295-00	SHORT	0		
R437	1-216-097-00	RES,CHIP	100K	5%	1/10W
R438	1-216-097-00	RES,CHIP	100K	5%	1/10W
R439	1-216-097-00	RES,CHIP	100K	5%	1/10W
R440	1-216-097-00	RES,CHIP	100K	5%	1/10W
R441	1-216-097-00	RES,CHIP	100K	5%	1/10W
R442	1-216-097-00	RES,CHIP	100K	5%	1/10W
R443	1-216-097-00	RES,CHIP	100K	5%	1/10W
R444	1-216-097-00	RES,CHIP	100K	5%	1/10W
R445	1-216-025-00	RES,CHIP	100	5%	1/10W
R446	1-216-097-00	RES,CHIP	100K	5%	1/10W
R447	1-216-097-00	RES,CHIP	100K	5%	1/10W
R448	1-216-097-00	RES,CHIP	100K	5%	1/10W
R449	1-216-097-00	RES,CHIP	100K	5%	1/10W
R450	1-216-073-00	METAL CHIP	10K	5%	1/10W
R451	1-216-097-00	RES,CHIP	100K	5%	1/10W
R452	1-216-097-00	RES,CHIP	100K	5%	1/10W
R453	1-216-033-00	METAL CHIP	220	5%	1/10W
R454	1-216-033-00	METAL CHIP	220	5%	1/10W
R455	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R456	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R501	1-216-295-00	SHORT	0		
R505	1-208-758-11	RES,CHIP	100	0.50%	1/10W
R506	1-208-758-11	RES,CHIP	100	0.50%	1/10W
R507	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R508	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R509	1-216-049-11	RES,CHIP	1K	5%	1/10W
R510	1-216-025-00	RES,CHIP	100	5%	1/10W
R513	1-216-013-00	METAL CHIP	33	5%	1/10W
R520	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R521	1-208-810-11	RES,CHIP	15K	0.50%	1/10W
R522	1-208-810-11	RES,CHIP	15K	0.50%	1/10W
R523	1-208-796-11	RES,CHIP	3.9K	0.50%	1/10W
R524	1-208-810-11	RES,CHIP	15K	0.50%	1/10W
R525	1-208-758-11	RES,CHIP	100	0.50%	1/10W
R526	1-208-822-11	RES,CHIP	47K	0.50%	1/10W
R527	1-208-810-11	RES,CHIP	15K	0.50%	1/10W
R531	1-208-830-11	RES,CHIP	100K	0.50%	1/10W
R532	1-208-830-11	RES,CHIP	100K	0.50%	1/10W
R533	1-208-782-11	RES,CHIP	1K	0.50%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R540	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R541	1-208-810-11	RES,CHIP	15K	0.50%	1/10W
R542	1-208-810-11	RES,CHIP	15K	0.50%	1/10W
R543	1-208-796-11	RES,CHIP	3.9K	0.50%	1/10W
R544	1-208-810-11	RES,CHIP	15K	0.50%	1/10W
R545	1-208-758-11	RES,CHIP	100	0.50%	1/10W
R546	1-208-822-11	RES,CHIP	47K	0.50%	1/10W
R547	1-208-810-11	RES,CHIP	15K	0.50%	1/10W
R550	1-216-025-00	RES,CHIP	100	5%	1/10W
R551	1-208-830-11	RES,CHIP	100K	0.50%	1/10W
R552	1-208-830-11	RES,CHIP	100K	0.50%	1/10W
R553	1-208-782-11	RES,CHIP	1K	0.50%	1/10W
R561	1-216-025-00	RES,CHIP	100	5%	1/10W
R562	1-216-073-00	METAL CHIP	10K	5%	1/10W
R601	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R602	1-216-073-00	METAL CHIP	10K	5%	1/10W
R603	1-220-264-11	RES,CHIP	1K	5%	1/4W
R604	1-216-097-00	RES,CHIP	100K	5%	1/10W
R605	1-220-264-11	RES,CHIP	1K	5%	1/4W
R607	1-216-073-00	METAL CHIP	10K	5%	1/10W
R608	1-216-097-00	RES,CHIP	100K	5%	1/10W
R609	1-216-097-00	RES,CHIP	100K	5%	1/10W
R610	1-216-097-00	RES,CHIP	100K	5%	1/10W
R611	1-216-089-00	RES,CHIP	47K	5%	1/10W
R612	1-216-025-00	RES,CHIP	100	5%	1/10W
R613	1-216-025-00	RES,CHIP	100	5%	1/10W
R614	1-216-025-00	RES,CHIP	100	5%	1/10W
R615	1-216-001-00	METAL CHIP	10	5%	1/10W
R616	1-220-264-11	RES,CHIP	1K	5%	1/4W
R617	1-216-097-00	RES,CHIP	100K	5%	1/10W
R618	1-216-097-00	RES,CHIP	100K	5%	1/10W
R620	1-208-790-11	RES,CHIP	2.2K	0.50%	1/10W
R621	1-208-776-11	RES,CHIP	560	0.50%	1/10W
R622	1-216-295-00	SHORT	0		
R701	1-216-025-00	RES,CHIP	100	5%	1/10W
R702	1-216-025-00	RES,CHIP	100	5%	1/10W
R703	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R704	1-216-025-00	RES,CHIP	100	5%	1/10W
R705	1-216-013-00	METAL CHIP	33	5%	1/10W
R706	1-216-025-00	RES,CHIP	100	5%	1/10W
		< NETWORK RESISTOR >			
RP401	1-216-182-00	RES, CHIP NETWORK	220	(3216)	
RP402	1-216-182-00	RES, CHIP NETWORK	220	(3216)	
RP403	1-216-182-00	RES, CHIP NETWORK	220	(3216)	
RP404	1-216-182-00	RES, CHIP NETWORK	220	(3216)	
RP405	1-216-182-00	RES, CHIP NETWORK	220	(3216)	
RP406	1-216-182-00	RES, CHIP NETWORK	220	(3216)	
RP407	1-216-182-00	RES, CHIP NETWORK	220	(3216)	
RP408	1-216-182-00	RES, CHIP NETWORK	220	(3216)	
RP409	1-216-182-00	RES, CHIP NETWORK	220	(3216)	
RP410	1-216-182-00	RES, CHIP NETWORK	220	(3216)	

Ref. No.	Part No.	Description			Remark
RP411	1-216-182-00	RES, CHIP NETWORK	220	(3216)	
RP412	1-216-182-00	RES, CHIP NETWORK	220	(3216)	
RP413	1-216-182-00	RES, CHIP NETWORK	220	(3216)	
RP414	1-216-182-00	RES, CHIP NETWORK	220	(3216)	
RP415	1-216-182-00	RES, CHIP NETWORK	220	(3216)	
RP416	1-216-182-00	RES, CHIP NETWORK	220	(3216)	
RP417	1-216-182-00	RES, CHIP NETWORK	220	(3216)	
RP418	1-216-182-00	RES, CHIP NETWORK	220	(3216)	
RP419	1-233-574-11	RES, CHIP NETWORK	10		
RP420	1-233-574-11	RES, CHIP NETWORK	10		
		< VARIABLE RESISTOR >			
RV101	1-238-597-11	RES, ADJ, CARBON	1K		
RV102	1-238-598-11	RES, ADJ, CARBON	2.2K		
RV103	1-238-599-11	RES, ADJ, CARBON	4.7K		
RV104	1-238-595-11	RES, ADJ, CARBON	220		
		< RELAY >			
RY501	1-755-060-11	RELAY			
		< SWITCH >			
SW401	1-571-478-11	SWITCH, SLIDE (DIGITAL/ANALOG)			
SW601	1-571-478-11	SWITCH, SLIDE (ANT +B)			
		< SAW FILTER >			
SWF101	1-781-028-11	FILTER, SAW			
		< BPF >			
T101	1-234-146-11	FILTER, BAND PASS			
		< COIL >			
T102	1-416-753-11	COIL, OSCILLATION			
		< THERMISTOR (POSITIVE) >			
TH601	1-810-940-11	THERMISTOR, POSITIVE			
TH602	1-810-940-11	THERMISTOR, POSITIVE			
TH603	1-801-792-21	THERMISTOR, POSITIVE			
		< TUNER >			
TU101	1-475-899-11	TUNER UNIT (DAB) (ANTENNA)			
		< VIBRATOR >			
XO101	1-781-029-21	OSCILLATOR, CRYSTAL (17.92MHz)			
XO201	1-767-694-21	OSCILLATOR, CRYSTAL (24.576MHz)			
XO301	1-767-337-11	VIBRATOR, CRYSTAL (22.5792MHz)			
XO401	1-781-030-21	VIBRATOR, CRYSTAL (18.432kHz)			

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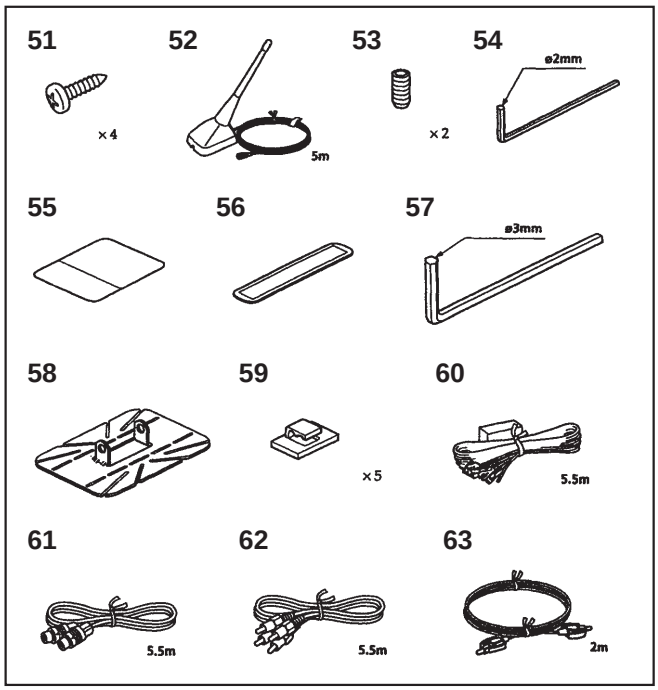
Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
9	1-790-068-11	CORD (WITH CONNECTOR) (POWER) (INCLUDING F901)	
F901	1-532-731-11	FUSE (BLADE TYPE) (AUTO FUSE) 3A	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
	3-864-772-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH,SWEDISH,PORTUGUESE)	
	3-864-772-21	MANUAL, INSTRUCTION, INSTALL (FRENCH, GERMAN,DUTCH,ITALIAN)	
	3-865-746-11	MANUAL, INSTRUCTION, ANTENNA INSTALL (for DAB ANTENNA) (ENGLISH, SPANISH,SWEDISH,PORTUGUESE)	
	3-865-746-21	MANUAL, INSTRUCTION, ANTENNA INSTALL (for DAB ANTENNA) (FRENCH, GERMAN,DUTCH,ITALIAN)	
**********			
		PARTS FOR INSTALLATION AND CONNECTIONS	
		**********	
51	7-685-662-79	SCREW +P 4X14 TYPE4	
52	9-882-669-01	ANTENNA ASSY (DAB)	
53	9-882-665-01	SCREW, FITTING	
54	9-882-667-01	WRENCH, HEXAGON (ø2mm)	
55	9-882-663-01	TAPE, GUARD	
56	9-882-664-01	PLATE, PROTECTION	
57	9-882-668-01	WRENCH, HEXAGON (ø3mm)	
58	9-882-662-01	BRACKET ASSY	
59	9-882-666-01	CLAMPER, CORD	
60	1-790-068-11	CORD (WITH CONNECTOR) (POWER) (INCLUDING F901)	
61	1-590-519-21	CORD (WITH CONNECTOR) (BUS CABLE) (5.5m)	
62	1-590-874-11	CORD, CONNECTION (RCA PIN CORD) (5.5m)	
63	1-751-336-21	CORD, CONNECTION (OPTICAL CABLE) (2m)	



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